STN SEARCH TRANSCRIPT 10/790,810

```
Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSSPTA1623ZCT

PASSWORD:
  * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 07:54:53 ON 11 JAN 2006
FILE 'REGISTRY' ENTERED AT 07:54:53 ON 11 JAN 2006
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COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                              ENTRY     SESSION
FULL ESTIMATED COST                          167.38     167.59

=> ....Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end


=>
Uploading C:\Program Files\Stnexp\Queries\CYCLIC SULFAMIDATE.str
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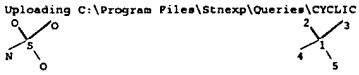

```
chain nodes :
1  2  3
ring/chain nodes :
4  5
chain bonds :
1-2  1-3  1-4  1-5
exact/norm bonds :
1-2  1-3  1-4  1-5

Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS



L5      STRUCTURE UPLOADED

=> que L5

L6   QUE L5

=> D L5
L5 HAS NO ANSWERS
L5                STR
```

```
Structure attributes must be viewed using STN Express query preparation.


=> S L5
SAMPLE SEARCH INITIATED 07:55:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     1077 TO ITERATE

100.0% PROCESSED     1077 ITERATIONS                                 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        19572 TO    23508
PROJECTED ANSWERS:           19534 TO    23466

L7          50 SEA SSS SAM L5

=> S L5 SSS FULL
FULL SEARCH INITIATED 07:55:27 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    21575 TO ITERATE

100.0% PROCESSED    21575 ITERATIONS                            21524 ANSWERS
SEARCH TIME: 00.00.01

L8        21524 SEA SSS FUL L5

=> FILE CAPLUS
COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                              ENTRY     SESSION
FULL ESTIMATED COST                          334.32     334.53

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FILE LAST UPDATED: 10 Jan 2006  (20060110/ED)

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=> S L8
L9        18164 L8

=> S L8/PREP
          18164 L8
        3407917 PREP/RL
L10        3153 L8/PREP
                (L8 (L) PREP/RL)

=> S L10 AND ((CYCLIZ? OR CYCLIS?) OR (CYCLIC SULFAMATE) OR (CYCLIC SULFAMIDTATE)
OR (HETEROCYCLIC SULFAMATE) OR (HETEROCYCLIC SULFAMIDATE))
         160714 CYCLIZ?
           1071 CYCLIS?
         297909 CYCLIC
            336 CYCLICS
         298040 CYCLIC
                (CYCLIC OR CYCLICS)
           4983 SULFAMATE
            810 SULFAMATES
           5216 SULFAMATE
                (SULFAMATE OR SULFAMATES)
             18 CYCLIC SULFAMATE
                (CYCLIC(W)SULFAMATE)
         297909 CYCLIC
            336 CYCLICS
         298040 CYCLIC
                (CYCLIC OR CYCLICS)
              0 SULFAMIDTATE
              0 CYCLIC SULFAMIDTATE
                (CYCLIC(W)SULFAMIDTATE)
          97901 HETEROCYCLIC
           1566 HETEROCYCLICS
          98666 HETEROCYCLIC
                (HETEROCYCLIC OR HETEROCYCLICS)
           4983 SULFAMATE
            810 SULFAMATES
           5216 SULFAMATE
                (SULFAMATE OR SULFAMATES)
              2 HETEROCYCLIC SULFAMATE
                (HETEROCYCLIC(W)SULFAMATE)
          97901 HETEROCYCLIC
           1566 HETEROCYCLICS
          98666 HETEROCYCLIC
                (HETEROCYCLIC OR HETEROCYCLICS)
             57 SULFAMIDATE
             35 SULFAMIDATES
             60 SULFAMIDATE
                (SULFAMIDATE OR SULFAMIDATES)
              0 HETEROCYCLIC SULFAMIDATE
                (HETEROCYCLIC(W)SULFAMIDATE)
L11         253 L10 AND ((CYCLIZ? OR CYCLIS?) OR (CYCLIC SULFAMATE) OR (CYCLIC
                SULFAMIDTATE) OR (HETEROCYCLIC SULFAMATE) OR (HETEROCYCLIC SULFA
                MIDATE))

=> S L11 AND (OXID? OR PORPH? OR METALLOPORPH?)
        2827061 OXID?
          69630 PORPH?
           7068 METALLOPORPH?
L12          61 L11 AND (OXID? OR PORPH? OR METALLOPORPH?)

=> S L12 AND (SULFAMATE OR SULFONAMIDE OR SULFAMIDE OR SULFONYLAMIDE OR SULFAMIC OR
METAL)
           4983 SULFAMATE
            810 SULFAMATES
           5216 SULFAMATE
                (SULFAMATE OR SULFAMATES)
          20852 SULFONAMIDE
          16959 SULFONAMIDES
          29835 SULFONAMIDE
                (SULFONAMIDE OR SULFONAMIDES)
           1987 SULFAMIDE
            726 SULFAMIDES
           2330 SULFAMIDE
                (SULFAMIDE OR SULFAMIDES)
            156 SULFONYLAMIDE
             67 SULFONYLAMIDES
            215 SULFONYLAMIDE
                (SULFONYLAMIDE OR SULFONYLAMIDES)
           5383 SULFAMIC
        1618831 METAL
         819545 METALS
        1964253 METAL
                (METAL OR METALS)
L13           7 L12 AND (SULFAMATE OR SULFONAMIDE OR SULFAMIDE OR SULFONYLAMIDE
                OR SULFAMIC OR METAL)

=> D 1-7 IBIB ABS HITSTR

L13  ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2005:510442  CAPLUS
DOCUMENT NUMBER:          143:194163
TITLE:                    Intramolecular metal-catalyzed amination of
                          pseudo-anomeric C-H bonds
AUTHOR(S):                Toumieux, Sylvestre; Compain, Philippe; Martin,
                          Olivier R.
CORPORATE SOURCE:         Institut de Chimie Organique et Analytique UMR CNRS
                          6005, UMR CNRS 6005, Universite d'Orleans, Orleans,
                          45067, Fr.
SOURCE:                   Tetrahedron Letters (2005), 46(28), 4731-4735
                          CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER:                Elsevier B.V.
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
OTHER SOURCE(S):          CASREACT 143:194163
GI
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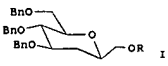

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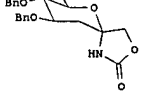

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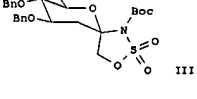


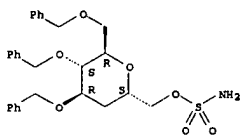
III

```
AB   Intramol. metal-catalyzed amination/cyclization of a
     pseudo-anomeric C-H bond in a C-glycoside, is reported.  Treatment of
     α,β-C-carbamoyloxymethyl- or β-C-sulfamoyloxymethyl
     glycosides, e.g. I (R = CONH2, SO2NH2), with Rh2(OAc)4, PhI(OAc)2, and MgO
     provided original spiro-oxazolidines, e.g. II, or spiro-oxa-thiazolidines,
     e.g. III, in reasonable yields.  No correlation between anomeric
     stereochem. and insertion efficiency was found for the conversion of
     carbamate derivs. whereas amination reactions of the corresponding
     sulfamate esters were found to be strongly dependent on the
     anomeric configuration.
IT   861994-97-0P 861994-99-2P
```

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intramol. metal-catalyzed amination of pseudo-anomeric C-H bonds in preparation of spiro-oxazolidine and spiro-oxa-thiazolidine glycosides)

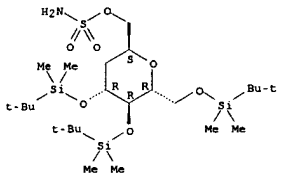
RN 861994-97-0 CAPLUS
CN D-manno-Heptitol, 2,6-anhydro-5-deoxy-1,3,4-tris-O-(phenylmethyl)-, sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



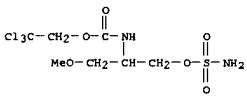
RN 861994-99-2 CAPLUS
CN D-manno-Heptitol, 2,6-anhydro-5-deoxy-1,3,4-tris-O-[(1,1-dimethylethyl)dimethylsilyl]-, sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



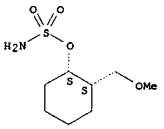
REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:72137 CAPLUS
DOCUMENT NUMBER: 138:238141
TITLE: Novel Iminium Ion Equivalents Prepared through C-H Oxidation for the Stereocontrolled Synthesis of Functionalized Propargylic Amine Derivatives
AUTHOR(S): Fleming, James J.; Fiori, Kristin Williams; Du Bois, J.
CORPORATE SOURCE: Department of Chemistry, Stanford University, Stanford, CA, 94305-5080, USA
SOURCE: Journal of the American Chemical Society (2003), 125(8), 2028-2029
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:238141
GI



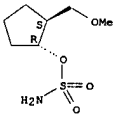
RN 501683-52-9 CAPLUS
CN Sulfamic acid, (1R,2R)-2-(methoxymethyl)cyclohexyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 501683-53-0 CAPLUS
CN Sulfamic acid, (1R,2S)-2-(methoxymethyl)cyclopentyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

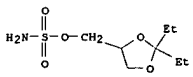
L13 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:450137 CAPLUS
DOCUMENT NUMBER: 135:180744
TITLE: Synthesis of 1,3-Difunctionalized Amine Derivatives through Selective C-H Bond Oxidation
AUTHOR(S): Espino, Christine G.; Wehn, Paul M.; Chow, Jessica; Du Bois, J.
CORPORATE SOURCE: Department of Chemistry, Stanford University, Stanford, CA, 94305, USA
SOURCE: Journal of the American Chemical Society (2001), 123(28), 6935-6936
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:180744
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Access to stereochem. complex, polyfunctionalized amine derivs. is made possible using novel oxathiazinane N,O-acetals, e.g. I and II, as starting materials. These heterocycles are prepared via intramol. sulfamate ester C-H insertion with a Rh2+-carboxylate catalyst and PhI(OAc)2 as the terminal oxidant. Such compds. function as unique iminium ion equivalent to which nucleophilic alkynylzinc reagents add smoothly in the presence of BF3·OEt2. The coupled products, e.g. III and IV, are isolated in high yield (63-92%) and with good levels of diastereoinduction (6-20:1). The alkyne-substituted oxathiazinanes serve as versatile building blocks and may be further manipulated through nucleophilic ring-opening reactions of the sulfamate core. The efficient construction of the 1,7,8-trihydroxyindolizidine V in six steps and in 34% overall yield highlights the power of these combined methods for synthesis.

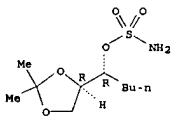
IT 501683-47-2P 501683-48-3P 501683-50-7P 501683-52-9P 501683-53-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(stereoselective preparation of propargylic amines via alkynylation of oxathiazinane acetals prepared by Rh-catalyzed cyclization of sulfamate esters)

RN 501683-47-2 CAPLUS
CN Sulfamic acid, (2,2-diethyl-1,3-dioxolan-4-yl)methyl ester (9CI) (CA INDEX NAME)

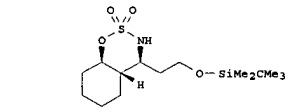


RN 501683-48-3 CAPLUS
CN Sulfamic acid, (1R)-1-[(4R)-2,2-dimethyl-1,3-dioxolan-4-yl]pentyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 501683-50-7 CAPLUS
CN Carbamic acid, [2-[(aminosulfonyl)oxy]-1-(methoxymethyl)ethyl]-, 2,2,2-trichloroethyl ester (9CI) (CA INDEX NAME)



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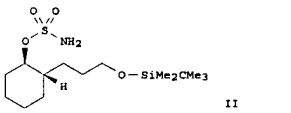
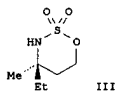


II



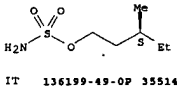
III

AB Cyclization of sulfamate esters via a Rh-catalyzed C-H bond oxidation/insertion reaction is described. Thus, oxathiazinanes, e.g. I, were prepared from the stereoselective intramol. oxidative cyclization of sulfamate esters, e.g. II, using Rh2(OAc)4, PhI(OAc)2, and MgO in CH2Cl2. Nucleophilic ring opening of oxathiazinanes with water followed by oxidation afforded β-amino acids. Thus, chiral oxathiazinane III underwent ring opening followed by oxidation to afford (R)-(Benzyloxycarbonyl)-β-isoleucine in 81% yield.

IT 355145-62-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of chiral oxathiazinane from sulfamate ester via Rh-catalyzed intramol. cyclization through C-H oxidn./insertion reaction)

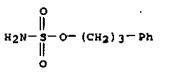
RN 355145-62-9 CAPLUS
CN Sulfamic acid, (3S)-3-methylpentyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

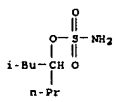


IT 136199-49-0P 355145-45-8P 355145-50-5P 355145-51-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of oxathiazinanes from sulfamate esters via Rh-catalyzed intramol. cyclization through C-H oxidn./insertion reaction)

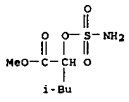
RN 136199-49-0 CAPLUS
CN Sulfamic acid, 3-phenylpropyl ester (9CI) (CA INDEX NAME)



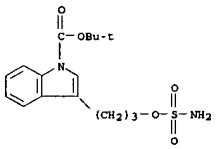
RN 355145-45-8 CAPLUS
CN Sulfamic acid, 3-methyl-1-propylbutyl ester (9CI) (CA INDEX NAME)



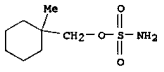
RN 355145-50-5 CAPLUS
CN Pentanoic acid, 2-[(aminosulfonyl)oxy]-4-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 355145-51-6 CAPLUS
CN 1H-Indole-1-carboxylic acid, 3-[3-[(aminosulfonyl)oxy]propyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

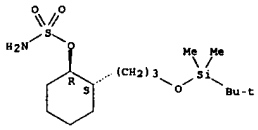


IT 97240-78-3P 355145-46-9P 355145-47-0P
355145-48-1P 355145-49-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of oxathiazinanes from sulfamate esters via stereoselective Rh-catalyzed intramol. cyclization through C-H oxidation/insertion reaction)
RN 97240-78-3 CAPLUS
CN Sulfamic acid, (1-methylcyclohexyl)methyl ester (9CI) (CA INDEX NAME)



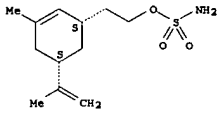
RN 355145-46-9 CAPLUS
CN Sulfamic acid, (1R,2S)-2-[3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]propyl] cyclohexyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

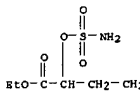


RN 355145-47-0 CAPLUS
CN Sulfamic acid, 2-[(1R,5R)-3-methyl-5-(1-methylethenyl)-2-cyclohexen-1-yl]ethyl ester, rel- (9CI) (CA INDEX NAME)

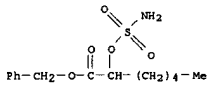
Relative stereochemistry.



RN 355145-48-1 CAPLUS
CN Benzenebutanoic acid, α-[(aminosulfonyl)oxy]-, ethyl ester (9CI) (CA INDEX NAME)

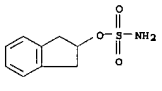


RN 355145-49-2 CAPLUS
CN Heptanoic acid, 2-[(aminosulfonyl)oxy]-, phenylmethyl ester (9CI) (CA INDEX NAME)



IT 355145-52-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of oxathiazoles from sulfamate esters via stereoselective Rh-catalyzed intramol. cyclization through C-H oxidation/insertion reaction)
RN 355145-52-7 CAPLUS

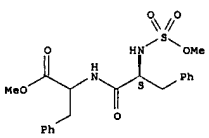
CN Sulfamic acid, 2,3-dihydro-1H-inden-2-yl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

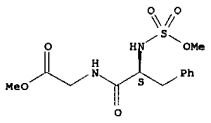
L13 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:559561 CAPLUS
DOCUMENT NUMBER: 131:337347
TITLE: Sulfahydantoins as tripeptide constraints. Synthesis and structure of chiral substituted 3-oxo-1,2,5-thiadiazolidine 1,1-dioxides
AUTHOR(S): Boudjabi, Sihem; Dewynter, Georges; Voyer, Normand; Toupet, Loic; Montero, Jean-Louis
CORPORATE SOURCE: Lab. Chimie Biomoleculaire, Univ. Montpellier-II, Montpellier, F-34095, Fr.
SOURCE: European Journal of Organic Chemistry (1999), (9), 2275-2283
CODEN: EJOCFK; ISSN: 1434-193X
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 131:337347
AB A sulfahydantoin, 3-oxo-1,2,5-thiadiazolidine 1,1-dioxide, motif is used as a new type of peptidic constraint to lock 2 consecutive amide nitrogens by a sulfonyl bridge. The 5-membered heterocyclic motif was prepared starting from proteogenic and synthetic amino acids and chlorosulfonyl isocyanate. Constrained dipeptides were obtained under alkaline conditions by cyclization of sym. and dissym. sulfamides. The absolute configuration of the chiral centers for the derivative L-Phe-D-Ala, a congener of the series, was established by x-ray diffraction crystallog. anal. In addition, the chemo-, regio-, and stereoselectivities of the reactions were studied. In the acylated derivs., the sulfahydantoin constraint induces a unique backbone conformation with coplanarity of 2 consecutive peptide bonds.
IT 249539-15-9P 249539-16-0P 249539-17-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of sulfahydantoins, oxothiadiazolidine dioxides, as tripeptide constraints)
RN 249539-15-9 CAPLUS
CN Phenylalanine, N-(methoxysulfonyl)-L-phenylalanyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



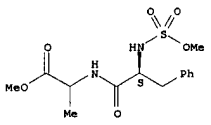
RN 249539-16-0 CAPLUS
CN Glycine, N-(methoxysulfonyl)-L-phenylalanyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



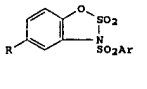
RN 249539-17-1 CAPLUS
CN Alanine, N-(methoxysulfonyl)-L-phenylalanyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:632139 CAPLUS
DOCUMENT NUMBER: 115:232139
TITLE: 1,2,3-Benzoxathiazole 2,2-dioxides: synthesis, mechanism of hydrolysis, and reactions with nucleophiles
AUTHOR(S): Andersen, Kenneth K.; Bray, Diana D.; Chumpradit, Sumalee; Clark, Michael E.; Habgood, Gregory J.; Hubbard, Colin D.; Young, Kathleen M.
CORPORATE SOURCE: Dep. Chem., Univ. New Hampshire, Durham, NH, 03824, USA
SOURCE: Journal of Organic Chemistry (1991), 56(23), 6508-16
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB The rates of base-induced hydrolysis of some five-membered cyclic sulfamates, benzoxathiazole dioxides I (Ar = p-MeC6H4; R = H, Me, CMe3, Br, Cl, Ac, NO2) were measured in aqueous acetonitrile. The hydrolyses

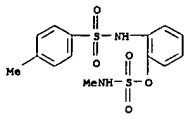
occurred with cleavage of the endocyclic N-SO2 bond. A Hammett plot using σm values for I and σp for II had ρ = +2.20. Activation enthalpies and entropies were measured for I (R = H) and for 3-methyl-1,2,3-benzoxathiazole 2,2-dioxide (III). Vols. of activation were determined for I (R = NO2) and for II. The mechanistic profile for hydrolysis resembled that for the saponification of the analogous sultones and cyclic sulfates. As first examples of 1,2,3-benzoxathiazole 2,2-dioxides I and II were prepared by treating ArSO2NHC6H3OH-2, R-5 with sulfuryl chloride and Et3N or by oxidizing the monoxide precursors using m-chloroperbenzoic acid. Treatment of I (R = H) with KF gave 1,2,3-benzoxathiazole 2,2-dioxide which was methylated to give II. I (R = H) was treated with various nucleophilic reagents: PhLi, MeLi, KF, MeNH2, Me3CNH2, NaOMe. The first three attacked the tosyl S atom and cleaved the exocyclic N-SO2 bond. The amines attacked the endocyclic sulfonyl sulfur atom and cleaved the endocyclic N-SO2 bond. Sodium methoxide attacked both sulfonyl groups.

IT 136061-97-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

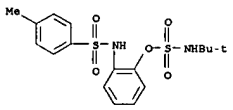
RN 136061-97-7 CAPLUS
CN Sulfamic acid, methylphenyl-, phenyl ester (9CI) (CA INDEX NAME)

IT 136061-93-3P 136061-94-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 136061-93-3 CAPLUS
CN Sulfamic acid, methyl-, 2-[[(4-methylphenyl)sulfonyl]amino]phenyl ester (9CI) (CA INDEX NAME)



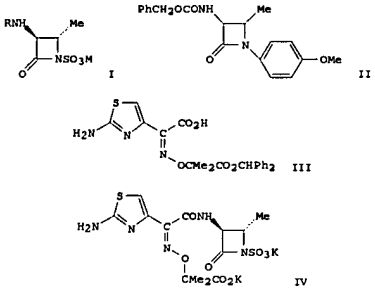
RN 136061-94-4 CAPLUS
CN Sulfamic acid, (1,1-dimethylethyl)-, 2-[[(4-methylphenyl)sulfonyl]amino]phenyl ester (9CI) (CA INDEX NAME)



L13 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1988:37491 CAPLUS
DOCUMENT NUMBER: 108:37491
TITLE: Process for the preparation of [3,4-(trans)]-3-acylamino-4-methyl-2-oxo-1-azetidinesulfonic acid derivatives and their pharmaceutically acceptable salts
INVENTOR(S): Perez-Aranda Ortega, Agustin; Herranz Herranz, Rosario; Arribas Mocoroa, Enrique; Fernandez Resa, Piedad; Conde Ruzafa, Santiago; Nieves Elvira, Rosa; Roncal Serra, Fernando; Fernandez Sousa-Faro, Jose Maria
PATENT ASSIGNEE(S): Antibioticos S. A., Spain
SOURCE: Span., 40 pp.
CODEN: SPXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Spanish
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ES 549891	A1	19860401	ES 1985-549891	19851212
PRIORITY APPLN. INFO.:			ES 1985-549891	19851212

GI



AB The antibiotic title compds. (I; R = H, acyl; M= H, alkali metal, quaternary ammonium) are prepared by a 9-step synthesis. For example, MeCOC(:NOH)CO2Et was reduced by Al amalgam and protected with PhCH2OCOCl to give MeCOCH(NHCO2CH2Ph)CO2Et, which was condensed with 4-H2NC6H4OMe and reduced with NaBH3CN/ZnCl2 to give 4-MeOC6H4NHCHMeCH(NHCO2CH2Ph)CO2Et. This was cyclized with PhMgBr (base) to give oxoazetidine derivative cis-II, which was epimerized by NaI/Me3SiCl/Et3N to give trans-II. The latter underwent N-deprotection with (NH4)2Ce(NO3)6, N-sulfonation with SO3-DMF complex in DMF, and hydrogenolysis over Pd/C to give I (R = M = H), which underwent amidation with thiazolylacetic acid derivative III in the presence of N-hydroxybenzotriazole and DCC, followed by deprotection with

CF3CO2H/anisole and conversion, to give (thiazolylacetylamino)azetidinesulfonate salt IV (i.e., the racemic di-K salt of aztreonam).

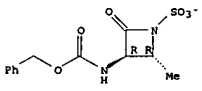
IT 93891-84-0P 112026-49-0P 112136-64-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deprotection of)

RN 93891-84-0 CAPLUS
CN 1-Butanaminium, N,N,N-tributyl-, salt with trans-2-methyl-4-oxo-3-[[(phenylmethoxy)carbonyl]amino]-1-azetidinesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

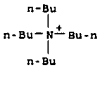
CRN 93891-83-9
CMF C12 H13 N2 O6 S

Relative stereochemistry.



CM 2

CRN 10549-76-5
CMF C16 H36 N

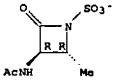


RN 112026-49-0 CAPLUS
CN 1-Butanaminium, N,N,N-tributyl-, salt with trans-3-(acetylamino)-2-methyl-4-oxo-1-azetidinesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

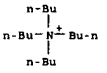
CRN 112026-48-9
CMF C6 H9 N2 O5 S

Relative stereochemistry.



CM 2

CRN 10549-76-5
CMF C16 H36 N

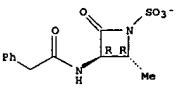


RN 112136-64-8 CAPLUS
CN 1-Butanaminium, N,N,N-tributyl-, salt with trans-2-methyl-4-oxo-3-[(phenylacetyl)amino]-1-azetidinesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

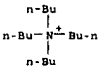
CRN 112136-63-7
CMF C12 H13 N2 O5 S

Relative stereochemistry.



CM 2

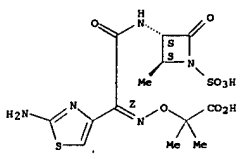
CRN 10549-76-5
CMF C16 H36 N



IT 80581-95-9P 112026-42-3P, trans-3-Amino-4-methyl-2-oxo-1-azetidinesulfonic acid
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, from oximinoacetylacetate)

RN 80581-95-9 CAPLUS
CN Propanoic acid, 2-[[[1-(2-amino-4-thiazolyl)-2-[(2-methyl-4-oxo-1-sulfo-3-azetidinyl)amino]-2-oxoethylidene]amino]oxy]-2-methyl-, dipotassium salt, [2S-[2α,3β(Z)]]- (9CI) (CA INDEX NAME)

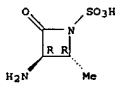
Absolute stereochemistry.
Double bond geometry as shown.



●2 K

RN 112026-42-3 CAPLUS
CN 1-Azetidinesulfonic acid, 3-amino-2-methyl-4-oxo-, trans- (9CI) (CA INDEX NAME)

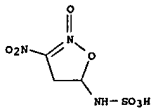
Relative stereochemistry.



L13 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1975:564161 CAPLUS
DOCUMENT NUMBER: 83:164161
TITLE: 4,5-Disubstituted 3-nitroisoxazoline N- oxides
INVENTOR(S): Fridman, A. L.; Gabitov, F. A.; Surkov, V. D.; Zalesov, V. S.
PATENT ASSIGNEE(S): Perm Pharmaceutical Institute, USSR
SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1975, 52(21), 77.
CODEN: URXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 472939	T	19750605	SU 1973-1953576	19730731
PRIORITY APPLN. INFO.:			SU 1973-1953576 A	19730731

GI For diagram(s), see printed CA Issue.
AB Title compds. I (R = alkoxy, aralkoxycarbonyl; R1 = sulfonylamido, succinimido) were prepared by treating (O2N)2CHCHRCHR1CO2H ester salts with N-halo amides or imides.
IT 57420-32-3DP, Sulfamic acid, (4,5-dihydro-3-nitro-5-isoxazolyl)-, N- oxide, 4-alkoxy and 4-aralkoxycarbonyl derivs.
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 57420-32-3 CAPLUS
CN Sulfamic acid, (4,5-dihydro-3-nitro-2-oxido-5-isoxazolyl)- (9CI) (CA INDEX NAME)



=> LOG HOLD

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	78.91	413.44
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.25	-5.25

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STN INTERNATIONAL SESSION SUSPENDED AT 08:01:03 ON 11 JAN 2006

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LOGINID:SSSPTA1623ZCT

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 08:06:31 ON 11 JAN 2006
FILE 'CAPLUS' ENTERED AT 08:06:31 ON 11 JAN 2006
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	78.91	413.44
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.25	-5.25

=> D HIS

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FILE 'REGISTRY' ENTERED AT 07:51:31 ON 11 JAN 2006
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L2 QUE L1
L3 0 S L1
L4 0 S L1 SSS FULL
L5 STRUCTURE UPLOADED
L6 QUE L5
L7 50 S L5
L8 21524 S L5 SSS FULL

FILE 'CAPLUS' ENTERED AT 07:55:30 ON 11 JAN 2006
L9 18164 S L8
L10 3153 S L8/PREP
L11 253 S L10 AND ((CYCLIZ? OR CYCLIS?) OR (CYCLIC SULFAMATE) OR (CYCLI

L12 61 S L11 AND (OXID? OR PORPH? OR METALLOPORPH?)
L13 7 S L12 AND (SULFAMATE OR SULFONAMIDE OR SULFAMIDE OR SULFONYLAMI

=> S L9 AND PORPH?
69630 PORPH?
L14 25 L9 AND PORPH?

=> S L14 NOT L13
L15 25 L14 NOT L13

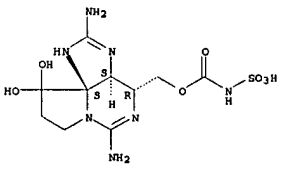
=> D 1-25 IBIB ABS HITSTR

L15 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:982406 CAPLUS
DOCUMENT NUMBER: 143:247315
TITLE: Detoxification of marine toxins in seafood
INVENTOR(S): Noguchi, Tamao; Arakawa, Osamu; Takaya, Tomohiro
PATENT ASSIGNEE(S): Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005237212	A2	20050908	JP 2004-48012	20040224
PRIORITY APPLN. INFO.:			JP 2004-48012	20040224

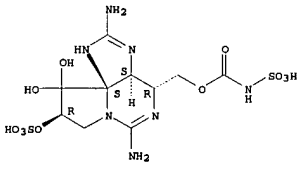
AB The detoxification method involves microwave treatment of seafood. Preferably, the method also involves alkali treatment and/or salting-out of the seafood before microwave treatment. Seafood (e.g., fugu, shellfish, crab, and sea squirt) is detoxified by the method, without flavor deterioration.
IT 64296-25-9, GTX 5 80173-30-4, Toxin C1
80226-62-6, Toxin C2 82810-44-4, GTX 6
RL: ADV (Adverse effect, including toxicity); POL (Pollutant); REM (Removal or disposal); BIOL (Biological study); OCCU (Occurrence); PROC (Process)
(detoxification of marine toxins in seafood by microwave treatment and optionally, by alkali treatment and/or salting-out before microwave treatment)
RN 64296-25-9 CAPLUS
CN Carbamic acid, sulfo-, C-[[(3aS,4R,10aS)-2,6-diamino-3a,4,9,10-tetrahydro-10,10-dihydroxy-1H,8H-pyrrolo[1,2-c]purin-4-yl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



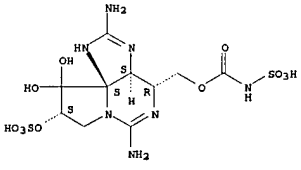
RN 80173-30-4 CAPLUS
CN Carbamic acid, sulfo-, C-[[(3aS,4R,9R,10aS)-2,6-diamino-3a,4,9,10-tetrahydro-10,10-dihydroxy-9-(sulfooxy)-1H,8H-pyrrolo[1,2-c]purin-4-yl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



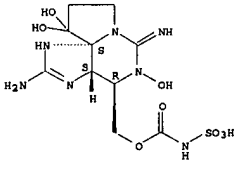
RN 80226-62-6 CAPLUS
CN Carbamic acid, sulfo-, C-[[(3aS,4R,9S,10aS)-2,6-diamino-3a,4,9,10-tetrahydro-10,10-dihydroxy-9-(sulfooxy)-1H,8H-pyrrolo[1,2-c]purin-4-yl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 82810-44-4 CAPLUS
CN Carbamic acid, sulfo-, C-[[(3aS,4R,10aS)-2-amino-3a,4,5,6,9,10-hexahydro-5,10,10-trihydroxy-6-imino-1H,8H-pyrrolo[1,2-c]purin-4-yl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L15 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:612064 CAPLUS
DOCUMENT NUMBER: 143:139157

TITLE: Preparation of rigid liposomal cochleate
INVENTOR(S): Krause-Elsmore, Sara L.; Mannino, Raphael J.
PATENT ASSIGNEE(S): Biodelivery Sciences International, Inc., USA
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005063213	A1	20050714	WO 2004-US42927	20041220

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-531546P P 20031219
US 2004-565120P P 20040423

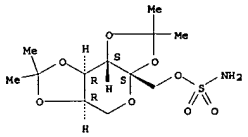
AB Employing liposomes having a high transition temperature at least partially disposed in a matrix, compns. are provided that can be used to deliver one or more cargo moieties, e.g., a drug, a nutrient, an imaging agent and/or nonsteroidal anti-inflammatory drug. The matrix can be a lipid precipitate and/or a cationic bridge. Methods of making and using these compns. preferably cochleates, are also disclosed. Rigid liposomes were obtained from distearoylphosphatidylserine and dextran.

IT 97240-79-4, Topiramate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of rigid liposomal cochleate)

RN 97240-79-4 CAPLUS

CN β-D-Fructopyranose, 2,3:4,5-bis-O-(1-methylethylidene)-, sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:99458 CAPLUS
DOCUMENT NUMBER: 142:193338
TITLE: Sequences of peptide inhibitors of β-lactamases and use for treating antibiotic resistant bacterial infections
INVENTOR(S): Palzkill, Timothy; Huang, Wanzhi
PATENT ASSIGNEE(S): Baylor College of Medicine, USA
SOURCE: PCT Int. Appl., 70 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005009948	A2	20050203	WO 2003-US27275	20030829
WO 2005009948	A3	20050512		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2005186197	A1	20050825	US 2005-59226	20050216
PRIORITY APPLN. INFO.:			US 2002-406806P	P 20020829
			WO 2003-US27275	A1 20030829

OTHER SOURCE(S): MARPAT 142:193338

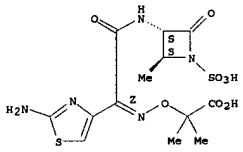
AB Peptide inhibitors of β-lactamases have been identified by the synthesis of peptide arrays using synthesis SPOT technol. These peptide inhibitors of β-lactamase have activity against a broad spectrum of β-lactamases and are useful in a variety of applications.

IT 78110-38-0, Monobactam
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(sequences of peptide inhibitors of β-lactamases and use for treating antibiotic resistant bacterial infections)

RN 78110-38-0 CAPLUS

CN Propanoic acid, 2-[[(Z)-[1-(2-amino-4-thiazolyl)-2-[[(2S,3S)-2-methyl-4-oxo-1-sulfo-3-azetidinyl]amino]-2-oxoethylidene]amino]oxy]-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



APPLICANTS

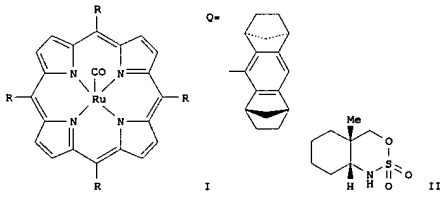
L15 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:1019826 CAPLUS
DOCUMENT NUMBER: 142:6560
TITLE: Intramolecular amidation of sulfamates 1,2,3-oxathiazolidine-2,2-dione and tetrahydro-1,2,3-oxathiazine-2,2-dione derivatives catalyzed by metalloporphyrins
INVENTOR(S): Che, Chi-Ming; Liang, Jiang-Lin
PATENT ASSIGNEE(S): Hong Kong
SOURCE: U.S. Pat. Appl. Publ., 12 pp., Cont.-in-part of U.S. Ser. No. 202,581.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

APPLICANTS

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004236099	A1	20041125	US 2004-790814	20040303
US 2004019204	A1	20040129	US 2002-202581	20020723
PRIORITY APPLN. INFO.:			US 2002-202581	A2 20020723

OTHER SOURCE(S): MARPAT 142:6560

GI

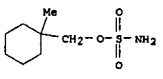


AB Disclosed is an intramol. amidation processes for substrates such as sulfamates using chiral and non-chiral metalloporphyrin complexes, i.e. (I) (R = pentafluorophenyl, Q), which can maximize catalytic activity, enhance efficiency, stereoselectivity and speed of amidation reactions is described. The chiral metalloporphyrin I (R = Q)-catalyzed amidation of sulfamates exhibits excellent cis-selectivity, affording cyclic sulfamidates with high enantiomeric excess values. Thus, 1-methylcyclohexylmethyl sulfamate (II) was cyclized in the presence of I (R = pentafluorophenyl) and PhI(OAc)2 in CH2Cl2 at 40° for 2 h to give 88% cis-cyclic sulfamidate (III). With the electron deficient ruthenium porphyrin I (R = pentafluorophenyl), this intramol. amidation afforded turnover nos. of 301.

IT 97240-78-3, 1-Methylcyclohexylmethyl sulfamate 106881-52-1, 2-Phenylethyl sulfamate 136199-49-0, 3-Phenylpropyl sulfamate 355145-50-5, Methyl 2-sulfamoyloxy-4-methylpentanoate 355145-52-7, Indan-2-yl sulfamate 797803-69-1, (1S,2R)-2-Benzylcyclohexyl sulfamate
RL: RCT (Reactant); RACT (Reactant or reagent)
(intramol. amidation of sulfamates 1,2,3-oxathiazolidine-2,2-dione and tetrahydro-1,2,3-oxathiazine-2,2-dione derive. catalyzed by metalloporphyrins)

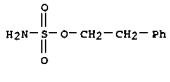
RN 97240-78-3 CAPLUS

CN Sulfamic acid, (1-methylcyclohexyl)methyl ester (9CI) (CA INDEX NAME)



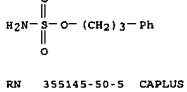
RN 106881-52-1 CAPLUS

CN Sulfamic acid, 2-phenylethyl ester (9CI) (CA INDEX NAME)



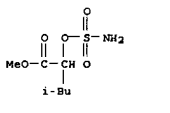
RN 136199-49-0 CAPLUS

CN Sulfamic acid, 3-phenylpropyl ester (9CI) (CA INDEX NAME)



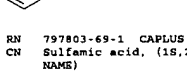
RN 355145-50-5 CAPLUS

CN Pentanoic acid, 2-[(aminosulfonyl)oxy]-4-methyl-, methyl ester (9CI) (CA INDEX NAME)



RN 355145-52-7 CAPLUS

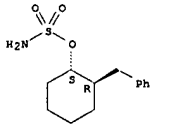
CN Sulfamic acid, 2,3-dihydro-1H-inden-2-yl ester (9CI) (CA INDEX NAME)



RN 797803-69-1 CAPLUS

CN Sulfamic acid, (1S,2R)-2-(phenylmethyl)cyclohexyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L15 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:902155 CAPLUS
DOCUMENT NUMBER: 141:364286
TITLE: Novel encochleation methods, cochleates and methods of use
INVENTOR(S): Mannino, Raphael J.; Gould-Fogerite, Susan; Krause-Elemore, Sara L.; Delmarre, David; Lu, Ruying
PATENT ASSIGNEE(S): Biodelivery Sciences International, Inc., USA; University of Medicine and Dentistry of New Jersey
SOURCE: PCT Int. Appl., 195 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

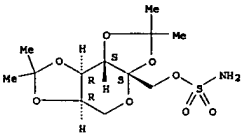
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004091578	A2	20041028	WO 2004-US11026	20040409
WO 2004091578	C1	20050127		
WO 2004091578	A3	20050331		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2005013854	A1	20050120	US 2004-822230	20040409
PRIORITY APPLN. INFO.:			US 2003-461483P	P 20030409
			US 2003-463076P	P 20030415
			US 2003-499247P	P 20030828
			US 2003-502557P	P 20030911
			US 2003-532755P	P 20031224
			US 2004-537252P	P 20040115
			US 2004-556192P	P 20040324

AB The invention generally relates to cochleate drug delivery vehicles. Disclose are novel methods for making cochleates and cochleate compns. that include introducing a cargo moiety to a liposome in the presence of a solvent. Also disclosed are cochleates and cochleate compns. that include an aggregation inhibitor, and optionally, a cargo moiety. Addnl., anhydrous cochleates that include a protonized cargo moiety, a divalent metal cation and a neg. charge lipid are disclosed. Methods of using the cochleate compns. of the invention, including methods of administration, are also disclosed.
IT 97240-79-4, Topiramate
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(novel encochleation methods and cochleates and methods of use for delivery of drugs and other agents using liposomes and aggregation inhibitors)
RN 97240-79-4 CAPLUS
CN β-D-Fructopyranose, 2,3:4,5-bis-O-(1-methylethylidene)-, sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L15 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:875940 CAPLUS
DOCUMENT NUMBER: 141:326192
TITLE: Use of estrogens and oxytocin agonists for the treatment of infertility in male mammals
INVENTOR(S): Maas, Jacob Jan; Coelingh, Bennink Herman Jan Tijmen; Nieschlag, Eberhard
PATENT ASSIGNEE(S): Pantarhei Bioscience B.V., Neth.
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

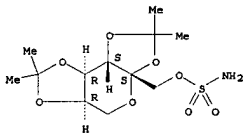
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1468690	A1	20041020	EP 2003-75894	20030327

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

PRIORITY APPLN. INFO.:	EP 2003-75894	20030327

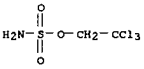
AB The present invention relates to a method of improving the fertility of a male mammal. More particularly, the present invention relates to a method of improving the fertility of a male mammal, said method comprising administering to said male mammal estrogen or a combination of estrogen and oxytocin agonist in an amount effective to increase the reproductive quality of the male's semen. Generally accepted parameters that are indicative of the reproductive quality of semen include total sperm count, sperm concentration, ejaculate volume, sperm motility and sperm morphol. Another
aspect of the invention relates to an intranasal drug delivery system comprising an intranasal drug delivery device and a drug delivery composition for intranasal delivery, said composition containing at least 3 μg/mL estrogen,
at least 3 μg/mL oxytocin agonist and pharmaceutically acceptable excipient.
IT 97240-79-4, Topiramate
RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(use, as a contraindication for treatment; use of estrogens and oxytocin agonists for treatment of infertility in male mammals)
RN 97240-79-4 CAPLUS
CN β-D-Fructopyranose, 2,3:4,5-bis-O-(1-methylethylidene)-, sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

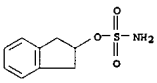


REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:363764 CAPLUS
DOCUMENT NUMBER: 141:123207
TITLE: Intramolecular C-N Bond Formation Reactions Catalyzed by Ruthenium Porphyrins: Amidation of Sulfamate Esters and Aziridination of Unsaturated Sulfonamides
AUTHOR(S): Liang, Jiang-Lin; Yuan, Shi-Xue; Huang, Jie-Sheng; Che, Chi-Ming
CORPORATE SOURCE: Department of Chemistry and Open Laboratory of Chemical Biology, Institute of Molecular Technology for Drug Discovery and Synthesis, University of Hong Kong, Hong Kong
SOURCE: Journal of Organic Chemistry (2004), 69(11), 3610-3619
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:123207
AB Ruthenium porphyrins [Ru(F20-TPP)(CO)] [F20-TPP = 5,10,15,20-tetrakis(pentafluorophenyl) porphyrinato dianion] and [Ru(Por)(CO)] [Por = 5,10,15,20-tetrakis[(1S,4R,5R,8S)-1,2,3,4,5,6,7,8-octahydro-1,4:5,8-dimethanoanthracen-9-yl] porphyrinato dianion] catalyzed intramol. amidation of sulfamate esters p-XC6H4(CH2)2O3SNH2 [X = Cl, Me, MeO], XC6H4(CH2)3O3SNH2 [X = p-F, p-MeO, m-MeO), and Ar(CH2)2O3SNH2 [Ar = naphthalen-1-yl, naphthalen-2-yl] with PhI(OAc)2 to afford the corresponding cyclic sulfamidates in ≤ 89% yield with ≤ 100% substrate conversion; ≤ 88% ee was attained in the asym. intramol. amidation catalyzed by [Ru(Por)(CO)]. Reaction of [Ru(F20-TPP)(CO)] with PhI:NSO3CH2CCl3 (prepared by treating the sulfamate ester Cl3CCH2O3SNH2 with PhI(OAc)2) afforded a bis(imido)ruthenium(VI) porphyrin, [RuVI(F20-TPP)(NSO3CH2CCl3)2], in 60% yield. A mechanism involving reactive imido ruthenium porphyrin intermediate was proposed for the ruthenium porphyrin-catalyzed intramol. amidation of sulfamate esters. [Ru(F20-TPP)(CO)] is also an active catalyst for intramol. aziridination of unsatd. sulfonamides with PhI(OAc)2, producing bicyclic aziridines in ≤ 87% yield with ≤ 100% substrate conversion and high turnover (up to 2014).
IT 69226-51-3, 2,2,2-Trichloroethyl sulfamate 355145-52-7
355145-62-9, (S)-3-Methylpentyl sulfamate 497964-18-8
723287-22-7, 3-Methylpentyl sulfamate
RL: RCT (Reactant); RACT (Reactant or reagent)
(intramol. amidation of sulfamates and aziridination of unsatd. sulfonamides catalyzed by ruthenium porphyrins)
RN 69226-51-3 CAPLUS
CN Sulfamic acid, 2,2,2-trichloroethyl ester (9CI) (CA INDEX NAME)

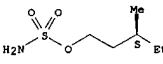


RN 355145-52-7 CAPLUS
CN Sulfamic acid, 2,3-dihydro-1H-inden-2-yl ester (9CI) (CA INDEX NAME)



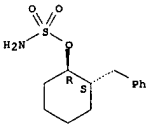
RN 355145-62-9 CAPLUS
CN Sulfamic acid, (3S)-3-methylpentyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

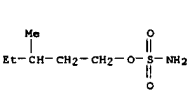


RN 497964-18-8 CAPLUS
CN Sulfamic acid, (1R,2S)-2-(phenylmethyl)cyclohexyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



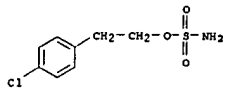
RN 723287-22-7 CAPLUS
CN Sulfamic acid, 3-methylpentyl ester (9CI) (CA INDEX NAME)



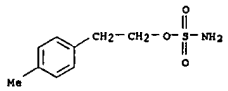
IT 723287-02-3P, 2-(4-Chlorophenyl)ethyl sulfamate
723287-03-4P, 2-(4-Methylphenyl)ethyl sulfamate
723287-04-5P, 2-(4-Methoxyphenyl)ethyl sulfamate
723287-05-6P, 2-(2-Naphthyl)ethyl sulfamate 723287-06-7P, 2-(1-Naphthyl)ethyl sulfamate 723287-07-8P, 3-(4-Fluorophenyl)propyl sulfamate 723287-08-9P,

3-(4-Methoxyphenyl)propyl sulfamate 723287-09-0P,
3-(3-Methoxyphenyl)propyl sulfamate 723287-21-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intramol. amidation of sulfamates and aziridination of unsatd. sulfonamides catalyzed by ruthenium porphyrins)

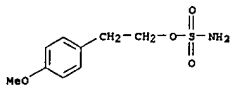
RN 723287-02-3 CAPLUS
CN Sulfamic acid, 2-(4-chlorophenyl)ethyl ester (9CI) (CA INDEX NAME)



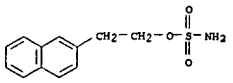
RN 723287-03-4 CAPLUS
CN Sulfamic acid, 2-(4-methylphenyl)ethyl ester (9CI) (CA INDEX NAME)



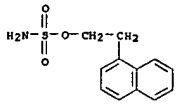
RN 723287-04-5 CAPLUS
CN Sulfamic acid, 2-(4-methoxyphenyl)ethyl ester (9CI) (CA INDEX NAME)



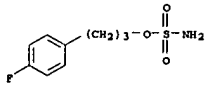
RN 723287-05-6 CAPLUS
CN Sulfamic acid, 2-(2-naphthalenyl)ethyl ester (9CI) (CA INDEX NAME)



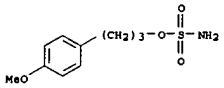
RN 723287-06-7 CAPLUS
CN Sulfamic acid, 2-(1-naphthalenyl)ethyl ester (9CI) (CA INDEX NAME)



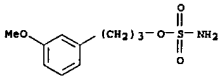
RN 723287-07-8 CAPLUS
CN Sulfamic acid, 3-(4-fluorophenyl)propyl ester (9CI) (CA INDEX NAME)



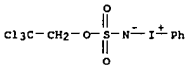
RN 723287-08-9 CAPLUS
CN Sulfamic acid, 3-(4-methoxyphenyl)propyl ester (9CI) (CA INDEX NAME)



RN 723287-09-0 CAPLUS
CN Sulfamic acid, 3-(3-methoxyphenyl)propyl ester (9CI) (CA INDEX NAME)

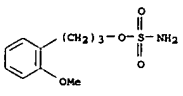


RN 723287-21-6 CAPLUS
CN Iodonium, phenyl[[(2,2,2-trichloroethoxy)sulfonyl]amino]-, inner salt (9CI) (CA INDEX NAME)



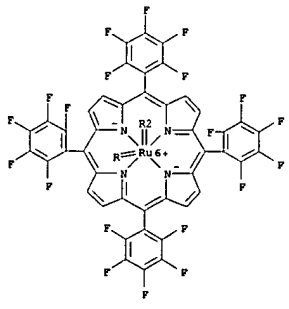
IT 723287-10-3P, 3-(2-Methoxyphenyl)propyl sulfamate
724427-37-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(intramol. amidation of sulfamates and aziridination of unsatd. sulfonamides catalyzed by ruthenium porphyrins)

RN 723287-10-3 CAPLUS
CN Sulfamic acid, 3-(2-methoxyphenyl)propyl ester (9CI) (CA INDEX NAME)

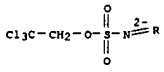


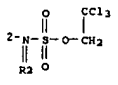
RN 724427-37-6 CAPLUS
CN Ruthenium, [5,10,15,20-tetrakis(pentafluorophenyl)-21H,23H-porphinato(2-)-κN21,κN22,κN23,κN24]bis(2,2,2-trichloroethyl sulfamato(2-)-κN]-, (OC-6-12)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A





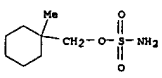
REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:76042 CAPLUS
DOCUMENT NUMBER: 140:128437
TITLE: Preparation of cyclic sulfamidates by metalloporphyrin-catalyzed oxidative intramolecular amidation of sulfamate esters.
INVENTOR(S): Che, Chiming; Liang, Jianglin
PATENT ASSIGNEE(S): The University of Hong Kong, Peop. Rep. China
SOURCE: Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

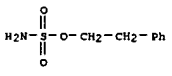
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1384718	A1	20040128	EP 2003-102223	20030718
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2004019204	A1	20040129	US 2002-202581	20020723
PRIORITY APPLN. INFO.:			US 2002-202581 A	20020723

OTHER SOURCE(S): CASREACT 140:128437
AB Cyclic sulfamidates were prepared by reaction of an oxidant and a base with sulfamate esters in the presence of catalytic metalloporphyrins. The intramol. amidation reaction exhibits excellent cis-selectivity, affording cyclic sulfamidates with high enantiomeric excess when catalyzed by chiral metalloporphyrins. Thus, reaction of Ph(CH2)3OSO2NH2 with PhI(OAc)2 in CH2Cl2 in the presence of Al2O3 and Ru(TPFPP)(CO) at 40° for 12 h to give 77% 4-phenyltetrahydro-1,2,3-oxathiazine 2,2-dioxide.
IT 97240-78-3 106881-52-1 136199-49-0
355145-50-5 355145-52-7 497964-18-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of cyclic sulfamidates by metalloporphyrin-catalyzed oxidative intramol. amidation of sulfamate esters)

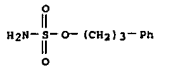
RN 97240-78-3 CAPLUS
CN Sulfamic acid, (1-methylcyclohexyl)methyl ester (9CI) (CA INDEX NAME)



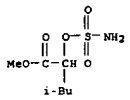
RN 106881-52-1 CAPLUS
CN Sulfamic acid, 2-phenylethyl ester (9CI) (CA INDEX NAME)



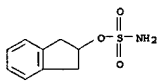
RN 136199-49-0 CAPLUS
CN Sulfamic acid, 3-phenylpropyl ester (9CI) (CA INDEX NAME)



RN 355145-50-5 CAPLUS
CN Pentanoic acid, 2-[(aminosulfonyl)oxy]-4-methyl-, methyl ester (9CI) (CA INDEX NAME)

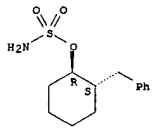


RN 355145-52-7 CAPLUS
CN Sulfamic acid, 2,3-dihydro-1H-inden-2-yl ester (9CI) (CA INDEX NAME)



RN 497964-18-8 CAPLUS
CN Sulfamic acid, (1R,2S)-2-(phenylmethyl)cyclohexyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



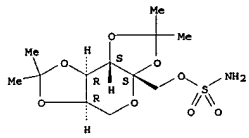
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:971836 CAPLUS
DOCUMENT NUMBER: 140:23256
TITLE: Combination therapy for treatment of amyotrophic lateral sclerosis (ALS) with cyclooxygenase-2 (COX 2) inhibitor(s) and a second drug
INVENTOR(S): Isakson, Peter C.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 358 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003101380	A2	20031211	WO 2003-US14547	20030528
WO 2003101380	A3	20041111		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004063751	A1	20040401	US 2003-444071	20030523
CA 2487885	AA	20031211	CA 2003-2487885	20030528
BR 2003011524	A	20050510	BR 2003-11524	20030528
EP 1539169	A2	20050615	EP 2003-731134	20030528
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2005534642	T2	20051117	JP 2004-508738	20030528
PRIORITY APPLN. INFO.:			US 2002-384104P	P 20020531
			US 2003-444071	A 20030523
			WO 2003-US14547	W 20030528

OTHER SOURCE(S): MARPAT 140:23256
AB A method of treating, preventing, or inhibiting ALS, in a subject in need of such treatment, inhibition or prevention. The method comprises administering to a subject one or more cyclooxygenase-2 selective inhibitor(s) or isomer(s) or pharmaceutically acceptable salt(s), ester(s), or prodrug(s) thereof, in combination with one or more second drugs, wherein the amount of the cyclooxygenase-2 selective inhibitor(s) or isomer(s) or pharmaceutically acceptable salt(s), ester(s), or prodrug(s) thereof in combination with the amount of second drug(s) constitutes an ALS treatment, inhibition or prevention effective amount
IT 97240-79-4, Topiramate
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(combination therapy for amyotrophic lateral sclerosis treatment of with COX-2 inhibitor and second drug)
RN 97240-79-4 CAPLUS
CN β-D-Fructopyranose, 2,3:4,5-bis-O-(1-methylethylidene)-, sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

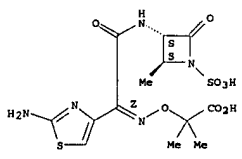


L15 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:977651 CAPLUS
DOCUMENT NUMBER: 138:61381
TITLE: Biofilm degradation or sloughing compositions containing furanones
INVENTOR(S): Kjelleberg, Staffan; Givskov, Michael; Hentzer, Morten
PATENT ASSIGNEE(S): Unisearch Limited, Australia
SOURCE: PCT Int. Appl., 69 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002102370	A1	20021227	WO 2002-AU797	20020618
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004147595	A1	20040729	US 2004-481250	20040331
PRIORITY APPLN. INFO.:			AU 2001-5754	A 20010618
			WO 2002-AU797	W 20020618

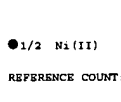
OTHER SOURCE(S): MARPAT 138:61381
AB The present invention relates to a method for the regulation and control of biofilm layers. In particular, the present invention is concerned with methods for degrading or causing sloughing of biofilms from surfaces (e.g., medical goods, implants, household furnishings, cooling systems in power plants). The invention is also related to compns. suitable for use in carrying out these methods. Thus, halogenated furanones were tested 8 different concns. The inhibitory activity of each compound on the fluorescent phenotype was diminished as the concentration increased.
IT 78110-38-0, Aztreonam
RL: PAC (Pharmacological activity); BIOL (Biological study)
(biofilm degradation or sloughing compns. containing furanones)
RN 78110-38-0 CAPLUS
CN Propanoic acid, 2-[[(Z)-[1-(2-amino-4-thiazolyl)-2-[[(2S,3S)-2-methyl-4-oxo-1-sulfo-3-azetidinyl]amino]-2-oxoethylidene]amino]oxy]-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:817156 CAPLUS
DOCUMENT NUMBER: 138:179449
TITLE: Electrodeposited magnetic nanowires: arrays, field-induced assembly, and surface functionalization
AUTHOR(S): Chien, C. L.; Sun, L.; Tanase, M.; Bauer, L. A.; Hultgren, A.; Silevitch, D. M.; Meyer, G. J.; Searson, P. C.; Reich, D. H.
CORPORATE SOURCE: Bloomberg Center, Department of Physics and Astronomy, The Johns Hopkins University, Baltimore, MD, 21218, USA
SOURCE: Journal of Magnetism and Magnetic Materials (2002), 249(1-2), 146-155
CODEN: JMMMDC; ISSN: 0304-8853
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Electrodeposition into nanoporous templates provides a means of fabricating large quantities of magnetic nanowires with diams. in the range 5 nm-10 μm, and lengths up to 60 μm. Several recent developments in nanoporous templates and Ni nanowires are described. Templates formed by α-particle irradiation of single-crystal mica contain diamond-shaped nanopores with uniform size and orientation. Ni prisms deposited in these templates show anisotropic magnetic properties along all three axes of the prisms. The manipulation of isolated Ni nanowires in a variety of suspensions, and a quant. anal. of the dynamics of the self-assembly of these nanowires under the control of external magnetic fields is described. Surface functionalization with porphyrin mols. yields fluorescent Ni nanowires that have potential for use in biotechnol. and other applications.
IT 13770-89-3, Nickel sulfamate
RL: CPS (Chemical process); NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
(precursor; electrodeposited magnetic nanowires in arrays with field-induced assembly and surface functionalization)
RN 13770-89-3 CAPLUS
CN Sulfamic acid, nickel(2+) salt (2:1) (8CI, 9CI) (CA INDEX NAME)



●1/2 Ni(II)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

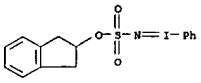
L15 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:756471 CAPLUS
DOCUMENT NUMBER: 138:187747
TITLE: Highly diastereo- and enantioselective intramolecular amidation of saturated C-H bonds catalyzed by ruthenium porphyrins
AUTHOR(S): Liang, Jiang-Lin; Yuan, Shi-Xue; Huang, Jie-Sheng; Yu, Wing-Yiu; Che, Chi-Ming
CORPORATE SOURCE: Department of Chemistry and Open Laboratory of Chemical Biology of the Institute of Molecular Technology for Drug Discovery and Synthesis, The University of Hong Kong, Hong Kong, Hong Kong
SOURCE: Angewandte Chemie, International Edition (2002), 41(18), 3465-3468

CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:187747

AB Virtually complete diastereoselectivity is observed in the intramol. amidation of saturated C-H bonds, catalyzed by the ruthenium porphyrin catalysts. Reactions of sulfamate esters with PhI(OAc)2 in the presence of these catalysts afforded cyclic sulfamidates in up to 87% ee.

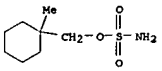
IT 497964-24-6
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation, nonpreparative)
(NMR identification of intermediate during diastereoselective and enantioselective intramol. amidation of sulfamate esters with iodophenyl diacetate in presence of ruthenium porphyrin catalysts)

RN 497964-24-6 CAPLUS
CN Iodine, [[[(2,3-dihydro-1H-inden-2-yl)oxy]sulfonyl]imino]phenyl- (9CI) (CA INDEX NAME)

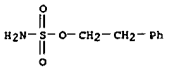


IT 97240-78-3 106881-52-1 120506-64-1
136199-49-0 355145-50-5 355145-52-7
497964-18-8 497964-19-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(diastereoselective and enantioselective intramol. amidation of sulfamate esters with iodophenyl diacetate in presence of ruthenium porphyrin catalysts)

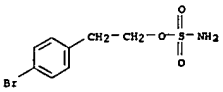
RN 97240-78-3 CAPLUS
CN Sulfamic acid, (1-methylcyclohexyl)methyl ester (9CI) (CA INDEX NAME)



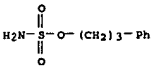
RN 106881-52-1 CAPLUS
CN Sulfamic acid, 2-phenylethyl ester (9CI) (CA INDEX NAME)



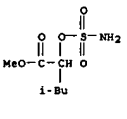
RN 120506-64-1 CAPLUS
CN Sulfamic acid, 2-(4-bromophenyl)ethyl ester (9CI) (CA INDEX NAME)



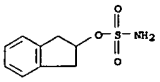
RN 136199-49-0 CAPLUS
CN Sulfamic acid, 3-phenylpropyl ester (9CI) (CA INDEX NAME)



RN 355145-50-5 CAPLUS
CN Pentanoic acid, 2-[(aminosulfonyl)oxy]-4-methyl-, methyl ester (9CI) (CA INDEX NAME)

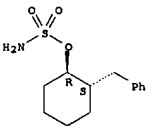


RN 355145-52-7 CAPLUS
CN Sulfamic acid, 2,3-dihydro-1H-inden-2-yl ester (9CI) (CA INDEX NAME)



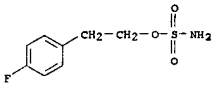
RN 497964-18-8 CAPLUS
CN Sulfamic acid, (1R,2S)-2-(phenylmethyl)cyclohexyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 497964-19-9 CAPLUS

CN Sulfamic acid, 2-(4-fluorophenyl)ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:521462 CAPLUS
DOCUMENT NUMBER: 137:88442
TITLE: Incensole and furanogermacrens and compounds in treatment for inhibiting neoplastic lesions and microorganisms
INVENTOR(S): Shanahan-Pendergast, Elisabeth
PATENT ASSIGNEE(S): Ire.
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

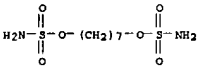
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002053138	A2	20020711	WO 2002-IE1	20020102
WO 2002053138	A3	20020919		
W: AE, AG, AT, AU, BB, BG, CA, CH, CN, CO, CU, CZ, LU, LV, MA, MD, UA, UG, US, VN, YU, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, AT, BE, CH, CY, DE, ES, FI, ML, MR, NE, SN, TD, TG				
EP 1351678	A2	20031015	EP 2002-727007	20020102
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004092583	A1	20040513	US 2004-250535	20040102
PRIORITY APPLN. INFO.:			IE 2001-2	A 20010102
			WO 2002-IE1	W 20020102

OTHER SOURCE(S): MARPAT 137:88442

AB The invention discloses the use of incensole and/or furanogermacrens, derive. metabolites and precursors thereof in the treatment of neoplasia, particularly resistant neoplasia and immunodysregulatory disorders. These compds. can be administered alone or in combination with conventional chemotherapeutic, antiviral, antiparasite agents, radiation and/or surgery. Incensole and furanogermacren and their mixture showed antitumor activity against various human carcinomas and melanomas and antimicrobial activity against Staphylococcus aureus and Enterococcus faecalis.

IT 96892-57-8, Hepsulfam
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical formulation further including; incensole and furanogermacrens and compds. as antitumor and antimicrobial agents)

RN 96892-57-8 CAPLUS
CN Sulfamic acid, 1,7-heptanediyl ester (9CI) (CA INDEX NAME)



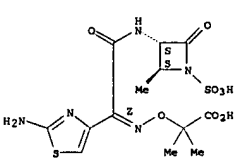
L15 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:506816 CAPLUS
DOCUMENT NUMBER: 138:69078
TITLE: Photoinactivation of bacterial strains involved in periodontal diseases sensitized by porphycene-polylysine conjugates
AUTHOR(S): Lauro, Federico M.; Pretto, Patrizia; Covolo, Loredana; Jori, Giulio; Bertoloni, Giulio
CORPORATE SOURCE: Department of Histology, Microbiology and Medical Biotechnology, University of Padova, Padua, 35121, Italy
SOURCE: Photochemical & Photobiological Sciences (2002), 1(7), 468-470
CODEN: PPSHCB; ISSN: 1474-905X
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Selected bacterial strains that are responsible for periodontal diseases are efficiently inactivated by visible light irradiation in the presence of porphycene-polylysine conjugates. Repeated photosensitization of surviving cells does not induce the selection of resistant bacterial strains and does not modify their sensitivity to antibiotic treatment.

IT 78110-38-0, Aztreonam
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(photoinactivation of bacterial strains in periodontal diseases by porphycene-polylysine conjugates and noneffect on antibiotic resistance)

RN 78110-38-0 CAPLUS
CN Propanoic acid, 2-[[(2)-[1-(2-amino-4-thiazolyl)-2-[[(2S,3S)-2-methyl-4-oxo-1-sulfo-3-azetidinyl]amino]-2-oxoethylidene]amino]oxy]-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:109654 CAPLUS
DOCUMENT NUMBER: 136:306494
TITLE: Comparative studies on mycosporine-like amino acids, paralytic shellfish toxins and pigment profiles of the

toxic dinoflagellates Alexandrium tamarense, A. catenella and A. minutum

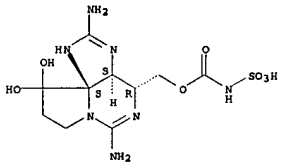
AUTHOR(S): Carreto, Jose I.; Carignan, Mario O.; Montoya, Nora G.
CORPORATE SOURCE: Instituto Nacional de Investigacion y Desarrollo Pesquero (INIDEP), Mar del Plata, 7600, Argent.
SOURCE: Marine Ecology: Progress Series (2001), 223, 49-60
CODEN: MESEDT; ISSN: 0171-8630
PUBLISHER: Inter-Research
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Surface bloom-forming species, predominantly of the Dinophyceae, have the capacity to accumulate high amts. of mycosporine-like amino acids (MAAs). The 3 dinoflagellate species (Gonyaulacales, Dinophyceae), Alexandrium tamarense (Lebour) Balech, A. catenella (Weadon et Kofoid) Balech, and A. minutum Halim, are bloom-forming toxic isolates. They are usually found forming blooms near the surface; hence, they are exposed to high light conditions. Using an improved HPLC methodol., 9 MAAs were separated and identified. Several forms of atypical MAAs, not previously reported in the literature, were also revealed. The chromatog. behavior of these new compds., UV spectra, chemical properties and mass spectra indicate that they contain 2 or more common MAAs linked among themselves. These atypical MAAs were present in the 3 Alexandrium species. At the same time, the chromatog. profile of A. minutum, A. tamarense and A. catenella, showed great differences. The biochem. composition of the cells is highly variable with growth conditions. Hence, we also reported, for the sake of a comparative discussion, the toxin and pigment composition of these Alexandrium isolates. The 3 species showed the same pigment pattern characteristic of peridinin-containing dinoflagellates. On the contrary, as reported previously, great variation of the toxin profiles was observed among the Alexandrium species. We conclude that, although MAAs are common among phytoplankton, the occurrence of different types of novel MAAs in the 3 Alexandrium species studies here would indicate some degree of biogeog. or ecotypic diversification.

IT 64296-25-9, GTX5 80173-30-4, Toxin C1 80226-62-6, Toxin C2 82810-44-4, GTX6
RL: BSU (Biological study, unclassified); BIOL (Biological study) (comparative studies on mycosporine-like amino acids, paralytic shellfish toxins, and pigment profiles of the toxic dinoflagellates Alexandrium tamarense, A. catenella and A. minutum)

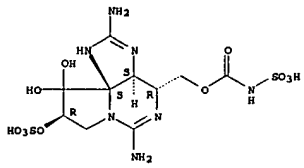
RN 64296-25-9 CAPLUS
CN Carbamic acid, sulfo-, C-[[(3aS,4R,10aS)-2,6-diamino-3a,4,9,10-tetrahydro-10,10-dihydroxy-1H,8H-pyrrolo[1,2-c]purin-4-yl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



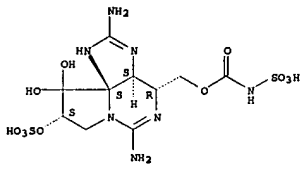
RN 80173-30-4 CAPLUS
CN Carbamic acid, sulfo-, C-[[(3aS,4R,9R,10aS)-2,6-diamino-3a,4,9,10-tetrahydro-10,10-dihydroxy-9-(sulfooxy)-1H,8H-pyrrolo[1,2-c]purin-4-yl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



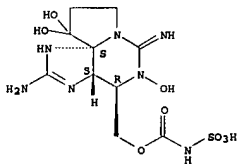
RN 80226-62-6 CAPLUS
CN Carbamic acid, sulfo-, C-[[(3aS,4R,9S,10aS)-2,6-diamino-3a,4,9,10-tetrahydro-10,10-dihydroxy-9-(sulfooxy)-1H,8H-pyrrolo[1,2-c]purin-4-yl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 82810-44-4 CAPLUS
CN Carbamic acid, sulfo-, C-[[(3aS,4R,10aS)-2-amino-3a,4,5,6,9,10-hexahydro-5,10,10-trihydroxy-6-imino-1H,8H-pyrrolo[1,2-c]purin-4-yl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 46 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:564791 CAPLUS
DOCUMENT NUMBER: 135:121657
TITLE: Composition for intestinal delivery

INVENTOR(S): Vandenberg, Grant William
PATENT ASSIGNEE(S): Aqua Solution Inc., Can.
SOURCE: PCT Int. Appl., 62 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

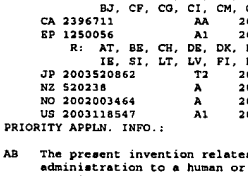
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001054514	A1	20010802	WO 2001-CA73	20010125
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2396711	AA	20010802	CA 2001-2396711	20010125
EP 1250056	A1	20021023	EP 2001-902185	20010125
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003520862	T2	20030708	JP 2001-555503	20010125
NZ 520238	A	20040430	NZ 2001-520238	20010125
NO 2002003464	A	20020924	NO 2002-3464	20020719
US 2003118547	A1	20030626	US 2002-181428	20021114
PRIORITY APPLN. INFO.:			US 2000-178318P	P 20000127
			WO 2001-CA73	W 20010125

AB The present invention relates to a new composition, use and method for oral administration to a human or an animal of a physiol. active agent comprising neutralizing agents to increase pH in the digestive system to prevent denaturation, inhibitors of digestive enzymes to substantially prevent enzymic digestion, and at least uptake-increasing agents which increases intestinal absorption of a physiol. active agent, a drug and/or a nutrient.

IT 78110-38-0, Aztreonam
RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(composition for intestinal delivery of nutrients and drugs)

RN 78110-38-0 CAPLUS
CN Propanoic acid, 2-[[(Z)-[1-(2-amino-4-thiazolyl)-2-[[(2S,3S)-2-methyl-4-oxo-1-sulfo-3-azetidinyl]amino]-2-oxoethylidene]amino]oxy]-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

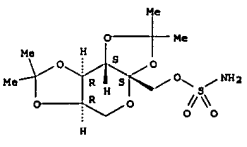
L15 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:543487 CAPLUS
DOCUMENT NUMBER: 135:327247
TITLE: Effect of tiagabine and topiramate on porphyrin metabolism in an in vivo model of porphyria
AUTHOR(S): Krijt, Jan; Krijtova, Hana; Sanitrak, Jaroslav
CORPORATE SOURCE: Institute of Pathophysiology, First Faculty of Medicine, Charles University, Prague, 128 53, Czech Rep.
SOURCE: Pharmacology & Toxicology (Copenhagen, Denmark) (2001), 89(1), 15-22
CODEN: PHTOEH; ISSN: 0901-9928
PUBLISHER: Munksgaard International Publishers Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Administration of many antiepileptic drugs to patients with porphyria can precipitate an acute porphyric crisis. Information on the porphyrogenic activity of new antiepileptic drugs is still limited. In the presented study, the effects of tiagabine and topiramate on porphyrin metabolism were evaluated in an in vivo model of porphyria. Administration of the protoporphyrinogen oxidase inhibitor oxadiazon (12.5 mg/kg/day) for four days to male Wistar rats caused a partial block of porphyrin biosynthesis, thus mimicking the condition of quiescent variegate porphyria. Administration of phenobarbital (75 mg/kg/day) to oxadiazon-pretreated rats increased liver porphyrin content, liver porphobilinogen content (means 480 nmol/g, control less than 20 nmol/g) and urinary excretion of porphobilinogen (means 1000 μmol/l, control less than 20 μmol/l). Tiagabine (75 mg/kg/day) and topiramate (75 mg/kg/day) increased liver porphobilinogen content (means 33 and 53 nmol/g resp.) and urinary porphobilinogen concentration (240 and 490 μmol/l resp.). Similar results were obtained in oxadiazon-treated BALB/c mice. In untreated rats, tiagabine and topiramate caused a moderate increase of hepatic pentoxyresorufin-O-dealkylase activity (approx. 100 and 200 pmol/min./mg resp., controls 15 pmol/min./mg). These data demonstrate that administration of tiagabine or topiramate to oxadiazon-treated animals can provoke a condition resembling an acute porphyric attack and suggest that administration of these drugs to patients with suspected porphyria should be avoided. However, 5-day administration of both tiagabine and topiramate (75 mg/kg) is considerably less porphyrogenic than phenobarbital administered at the same dose.

IT 97240-79-4, Topiramate
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (effect of tiagabine and topiramate on porphyrin metabolism in porphyria)

RN 97240-79-4 CAPLUS
CN β-D-Fructopyranose, 2,3:4,5-bis-O-(1-methylethylidene)-, sulfamate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:472514 CAPLUS
DOCUMENT NUMBER: 135:73947
TITLE: Lactoferrins for treatment and/or prevention of antibiotic-resistant microorganism infections
INVENTOR(S): Diarra, Moussa S.; Lacasse, Pierre; Petitclerc, Denis
PATENT ASSIGNEE(S): Sa Majeste la Reine du Chef du Canada Agriculture et Agroalimentaire Canada, Can.
SOURCE: PCT Int. Appl., 89 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

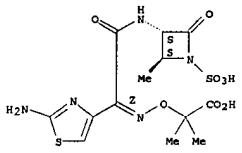
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001045732	A2	20010628	WO 2000-CA1517	20001219
WO 2001045732	A3	20011206		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2394997	AA	20010628	CA 2000-2394997	20001219
EP 1246640	A2	20021009	EP 2000-986923	20001219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2000016554	A	20030211	BR 2000-16554	20001219
JP 2003518072	T2	20030603	JP 2001-546671	20001219
AU 782915	B2	20050908	AU 2001-23349	20001219
US 2003134779	A1	20030717	US 2002-168257	20020923
PRIORITY APPLN. INFO.:			US 1999-172577P P	19991220
			WO 2000-CA1517 W	20001219

AB The present invention relates to a new composition, use and method to improve the cure of infections caused by antibiotic-resistant microbial pathogens, in particular β-lactam-resistant microorganisms. Lactoferrin (LF) or Lactoferricin (LFC) can be administrated alone or in combination with antibiotic to effect growth, physiol. and morphol. of targeted microorganisms. Lactoferrin increase susceptibility and can reverse resistance of microorganisms to antibiotics.

IT 78110-38-0, Aztreonam
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(lactoferrins for treatment and/or prevention of antibiotic-resistant microorganism infections)

RN 78110-38-0 CAPLUS
CN Propanoic acid, 2-[[(Z)-[1-(2-amino-4-thiazolyl)-2-[[(2S,3S)-2-methyl-4-oxo-1-sulfo-3-azetidinyl]amino]-2-oxoethylidene]amino]oxy]-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



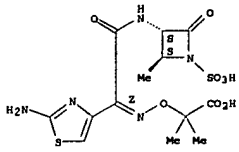
L15 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:558793 CAPLUS
DOCUMENT NUMBER: 127:197783
TITLE: Rewritable optical recording medium containing (4-aminophenylazo)thiadiazole or -imidazole derivatives and metal-phthalocyanine complexes
INVENTOR(S): Misawa, Tsutayoshi; Sugimoto, Kenichi; Nishimoto, Taizo; Tsuda, Takeshi; Umehara, Hideki; Takuma, Keisuke
PATENT ASSIGNEE(S): Mitsui Toatsu Chemicals, Inc., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 43 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09175031	A2	19970708	JP 1996-179624	19960709
JP 2003260876	A2	20030916	JP 2003-6485	19960709
KR 201210	B1	19990615	KR 1996-29445	19960720
EP 755052	A2	19970122	EP 1996-111774	19960722
EP 755052	A3	19970212		
EP 755052	B1	19991117		
R: DE, FR, GB, NL				
PRIORITY APPLN. INFO.:			JP 1995-184013 A	19950720
			JP 1995-196624 A	19950801
			JP 1995-220527 A	19950829
			JP 1995-279953 A	19951027
			JP 1996-179624 A3	19960709

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB In an optical recording medium possessing at least a dye layer, a reflective layer, and a protective layer on a support, said dye layer contains a (4-aminophenylazo)thiadiazole or -imidazole derivative [I; R1, R2 = H, (un)substituted C1-15 alkyl, C6-21 aryl, C7-22 aralkyl, or C2-16 alkenyl; R3 - R6 = H, halo, OH, CO2H, SO3H, SO2 NH2, NH2, (un)substituted C1-15 alkyl, C1-15 alkoxy, C6-21 aryl, C1-15 acyl, C2-16 alkylcarbonyloxy, C2-22 aralkyl, C2-16 alkylcarbonylamino, C1-15 alkylsulfonamido, C1-15 alkylamino, C1-15 alkylsulfonyl, or C2-16 alkenyl; or R1 and R4, R2 and R6, or R1 and R2 may form a ring through a linkage group; R7 = H, halo, OH, CO2H, sulfonyl, sulfonamido, NH2, (un)substituted C1-15 alkyl, C1-15 alkoxy, C6-21 aryl, C1-15 acyl, C2-16 alkylcarbonyloxy, C7-22 aralkyl, or C2-16 alkylcarbonylamino, etc.; X = S, NR8; wherein R8 = H,



L15 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:56708 CAPLUS
DOCUMENT NUMBER: 130:261531
TITLE: Filament formation of Porphyromonas and Prevotella cells induced by β-lactam antibiotics
AUTHOR(S): Konishi, Yasuzo; Onoe, Takatoshi; Sagawa, Hirosuke
CORPORATE SOURCE: Dep. Bacteriol., Osaka Dent. Univ., Hirakata, 573-1121, Japan
SOURCE: Shika Igaku (1998), 61(2), 91-104
CODEN: SIGAAE; ISSN: 0030-6150
PUBLISHER: Osaka Shika Gakkai
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

AB We studied the filament formation of periodontopathic bacterial cells induced by β-lactam antibiotics, and the macrophage phagocytosis of these cells. Nine β-lactam antibiotics, 5 species of Porphyromonas (6 strains), 6 species of Prevotella (6 strains), and rat peritoneal macrophages were used. Cells of 6 Prevotella strains were markedly elongated by 1/64-1/2 MIC of aztreonam (AZT) treatment. Cells with long filaments of 5 of the Porphyromonas strains were observed after treatment with the same concentration of latamoxef, piperacillin and cefteram. All of the β-lactams used caused cells of the treated bacterial strains to form spheroplasts. The phagocytosis ratio and phagocytosis index of macrophages to elongated cells that resulted from the AZT treatment were reduced one half and one third, resp., compared with normal cells. These results suggest that Porphyromonas and Prevotella cells were elongated after sub-MIC treatment with certain β-lactam antibiotics. In addition, these cells became more resistant to macrophage phagocytosis.

IT 78110-38-0, Aztreonam
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(filament formation of Porphyromonas and Prevotella cells induced by β-lactam antibiotics)

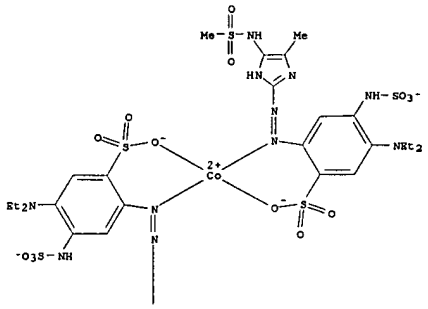
RN 78110-38-0 CAPLUS
CN Propanoic acid, 2-[[(Z)-[1-(2-amino-4-thiazolyl)-2-[[(2S,3S)-2-methyl-4-oxo-1-sulfo-3-azetidinyl]amino]-2-oxoethylidene]amino]oxy]-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

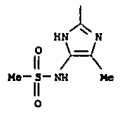
(un)substituted C1-15 alkyl, C6-21 aryl, C7-22 aralkyl, or C2-16 alkenyl; Y = N, CR9; R9 = R7; provided that when X = S, Y = N; when X = NR8, Y = CR9] having the maximum absorption at wavelength 450-630 nm and a phthalocyanine having the maximum absorption at wavelength 680-900 nm. Above phthalocyanine is represented by formula [II; Y1 - Y8 = H, (un)substituted C1-20 hydrocarbyl, C1-20 alkoxy, or C1-20 alkylthio; or Y1 and Y2, Y3 and Y4, or Y7 and Y8 are linked together to form a cyclic group when they are adjacent to each other; A1 - A4 = halo, NO2; n1 - n4 = 0-3; m1 - m4 = 0-3; M = H, bivalent metal atom, tri- or tetravalent substituted metal atom, oxymetal]. An optical recording medium capable of recording and/or regeneration using a laser light at a wavelength (λ1) selected from 770-830 nm and a wavelength selected from 620-690 nm is claimed. This optical recording medium exhibits good recording characteristics in particular capable of recording and/or regeneration against a plural number of laser wavelengths and thereby provides interchangeability for a high d. optical recording medium or CD using red laser and widely-used existing systems using near IR semiconductor laser of wavelength .apprx.780 nm.

IT 194162-17-9 194162-55-5 194162-56-6
RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(rewritable optical recording medium containing (aminophenylazo)thiadiazole or -imidazole derivs. and metal-phthalocyanine complexes for laser recording and regeneration)

RN 194162-17-9 CAPLUS
CN Cobaltate(2-), bis[5-(diethylamino)-2-[[4-methyl-5-[(methylsulfonyl)amino]-1H-imidazol-2-yl]azo- κN1]-4-(sulfoamino)benzenesulfonato(2-)-κO]-, dihydrogen (9CI) (CA INDEX NAME)



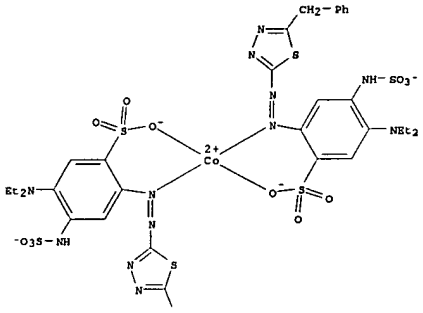
PAGE 2-A



●2 H+

RN 194162-55-5 CAPLUS
CN Cobaltate(2-), bis[5-(diethylamino)-2-[[5-(phenylmethyl)-1,3,4-thiadiazol-2-yl]azo-κN1]-4-(sulfoamino)benzenesulfonato(2-)- κO]- (9CI) (CA INDEX NAME)

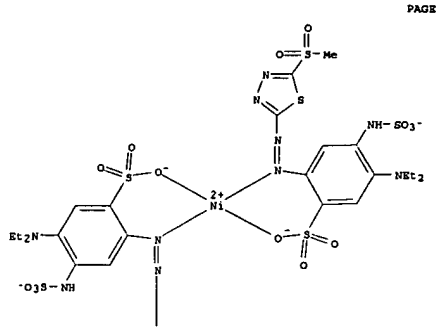
PAGE 1-A



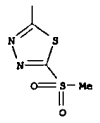
PAGE 2-A

RN 194162-56-6 CAPLUS
CN Nickelate(2-), bis[5-(diethylamino)-2-[[5-(methylsulfonyl)-1,3,4-thiadiazol-2-yl]azo- κN1]-4-(sulfoamino)benzenesulfonato(2-)- κO]-, dihydrogen (9CI) (CA INDEX NAME)

PAGE 1-A



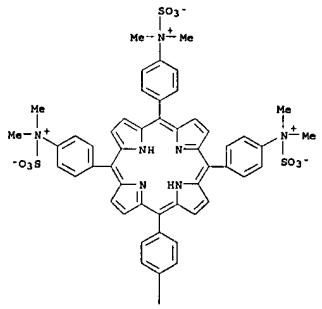
PAGE 2-A



●2 H+

L15 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:436843 CAPLUS
DOCUMENT NUMBER: 127:184972
TITLE: Color reaction of palladium with a new porphyrin reagent (TDMAPTPS)
AUTHOR(S): Quan, Xinjun; Jin, Weiqun; Zhang, Fengjun; Sun, Qizhi
CORPORATE SOURCE: Department of Chemistry, Changchun University of Earth Sciences, Changchun, 130026, Peop. Rep. China
SOURCE: Changchun Dizhi Xueyuan Xuebao (1996), 26(4), 470-473
CODEN: CTCPDB; ISSN: 0253-6072
PUBLISHER: Changchun Dizhi Xueyuan
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB A complex of 5,10,15,20-tetrakis(p-N,N-dimethyl-N-sulfonate aminobenzene) porphyrin (TDMAPTPS) with Pd(II) formed in the presence of surfactants (Na dodecyl benzenesulfonate and OP) at pH 3.4-5.0. The absorption maximum of the formed complex was at 413 nm, the apparent molar absorptivity was 1.65 + 105 L mol-1 cm-1. A method based on the color reaction was applied to the determination of Pd(II) in the catalysts, the results were satisfactory.
IT 183052-42-8
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (determination of palladium by spectrophotometry using new porphyrin reagent)
RN 183052-42-8 CAPLUS
CN Benzenaminium, 4,4',4'',4'''-(21H,23H-porphine-5,10,15,20-tetrayl)tetrakis[N,N-dimethyl-N-sulfo-, tetrakis(inner salt) (9CI) (CA INDEX NAME)

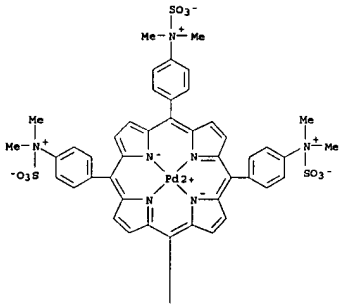
PAGE 1-A



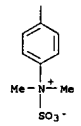
PAGE 2-A

IT 193888-41-4
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation, nonpreparative) (visible spectrum of)
RN 193888-41-4 CAPLUS
CN Palladium, [[4,4',4'',4'''-(21H,23H-porphine-5,10,15,20-tetrayl-κN21,κN22,κN23,κN24)tetrakis[N,N-dimethyl-N-sulfobenzenaminiumato]](6-)]-, (SP-4-1)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



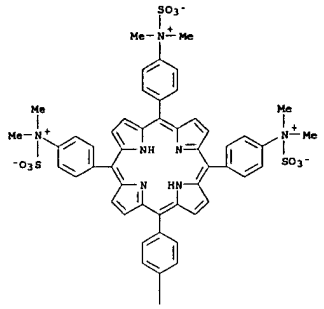
L15 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1996:597478 CAPLUS
DOCUMENT NUMBER: 125:296429
TITLE: Color reaction of 5,10,15,20-tetrakis(p-N,N-dimethyl-N-sulfonic acid negative radical aminobenzene) porphyrin with copper
AUTHOR(S): Quan, Xinjun; Jin, Weiqun; Sun, Qizhi; Wang, Xingqiao; Yang, Guoyu; Yu, Lianxiang; Cao, Xizhang
CORPORATE SOURCE: Dep. Chem., Changchun Geol. College, Changchun, 130026, Peop. Rep. China
SOURCE: Fenxi Huaxue (1996), 24(9), 1108
CODEN: FHHHDT; ISSN: 0253-3820
PUBLISHER: Zhongguo Huaxuehui "Fenxi Huaxue" Bianji Weiyuanhui
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB Human hair was washed, dried, and ashed at high temperature It was then dissolved in 4% HCl, neutralized to pH 3-5 with NaOH. The title reagent was then added; the mixture was incubated in boiling water bath, then measured at 414.5 nm for Cu determination This method is simple and rapid.
IT 183052-42-8
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)

(color reaction of 5,10,15,20-tetrakis(p-N,N-dimethyl-N-sulfonic acid neg. radical aminobenzene) porphyrin with copper)

RN 183052-42-8 CAPLUS

CN Benzenaminium, 4,4',4'',4'''-(21H,23H-porphine-5,10,15,20-tetrayl)tetrakis[N,N-dimethyl-N-sulfo-, tetrakis(inner salt) (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

L15 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:99301 CAPLUS

DOCUMENT NUMBER: 116:99301

TITLE: Maleic anhydride copolymers as antidotes for the cytotoxicity of neoplasm inhibitors

INVENTOR(S): Bach, Ardalan; Shanahan, William R., Jr.

PATENT ASSIGNEE(S): G.D. Searle and Co., USA

SOURCE: Eur. Pat. Appl., 27 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

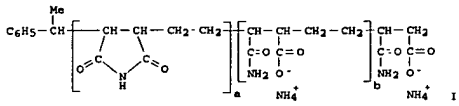
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 393575	A1	19901024	EP 1990-107246	19900417
EP 393575	B1	19940316		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 2014732	AA	19901017	CA 1990-2014732	19900417
JP 02292227	A2	19901203	JP 1990-101530	19900417
AT 102838	E	19940415	AT 1990-107246	19900417
ES 2062155	T3	19941216	ES 1990-107246	19900417
PRIORITY APPLN. INFO.:			US 1989-339503	A 19890417
			EP 1990-107246	A 19900417

OTHER SOURCE(S): MARPAT 116:99301

GI

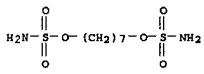


AB Half-amide:half-imide copolymers comprising ethylene and maleic anhydride moieties (structure given), specifically carbetimer (I; a/b = 1:2-5), decrease the cytotoxic side effects of neoplasm inhibitors. Mice treated i.v. with 21 mg adriamycin/kg died within 5 days. When 1700 mg I/kg was administered concomitantly, no lethality was shown for >30 days.

IT 96892-57-8, Hepsulfam
RL: PRP (Properties)
(cytotoxicity of, maleic anhydride copolymer antidote for)

RN 96892-57-8 CAPLUS

CN Sulfamic acid, 1,7-heptanediyl ester (9CI) (CA INDEX NAME)



L15 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1991:223259 CAPLUS

DOCUMENT NUMBER: 114:223259

TITLE: Significant differences in the structural basis of the induction of sister chromatid exchanges and chromosomal aberrations in Chinese hamster ovary cells

AUTHOR(S): Rosenkranz, Herbert S.; Ennever, Fanny K.; Dimayuga, Mario; Klopman, Gilles

CORPORATE SOURCE: Dep. Environ. Health Sci., Case West. Reserve Univ., Cleveland, OH, USA

SOURCE: Environmental and Molecular Mutagenesis (1990), 16(3), 149-77
CODEN: EMMUEG; ISSN: 0893-6692

DOCUMENT TYPE: Journal

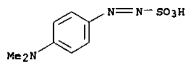
LANGUAGE: English

AB The structural basis of the induction of sister chromatid exchanges (SCE) and chromosomal aberrations (Cvt) in Chinese hamster ovary cells was investigated by the CASE (Computer Automated Structure Evaluation) method. Using the relevant National Toxicol. Program data bases, CASE identified a set of structural determinants responsible for the induction of SCE and another one for Cvt. A comparison between the structural determinants associated with SCE and Cvt revealed an overlap of only 22.6%, while the overlap between SCE and the determinants of mutagenicity in Salmonella is 54.5%. Apparently, the structural bases of the two phenomena differ; it is likely that SCE, but not Cvt, involves a significant electrophilic/DNA-damaging component.

IT 140-56-7, Fenaminosulf
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(genotoxicity of, computer program for evaluation of)

RN 140-56-7 CAPLUS

CN Diazenesulfonic acid, [4-(dimethylamino)phenyl]-, sodium salt (9CI) (CA INDEX NAME)



● Na

L15 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1988:557278 CAPLUS

DOCUMENT NUMBER: 109:157278

TITLE: Acid catalysts and methods of use including as herbicides

INVENTOR(S): Young, Donald C.

PATENT ASSIGNEE(S): Union Oil Co., USA

SOURCE: U.S., 17 pp. Cont.-in-part of U.S. 4,581,925.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 15

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4722986	A	19880202	US 1985-771259	19850830
US 4397675	A	19830809	US 1981-318343	19811105
US 4445925	A	19840501	US 1981-318629	19811105
US 4447253	A	19840508	US 1981-318368	19811105
US 4402852	A	19830906	US 1981-331001	19811215
US 4404116	A	19830913	US 1981-330904	19811215
US 4910179	A	19900320	US 1982-453496	19821227
US 4664717	A	19870512	US 1984-673358	19841120
US 4944787	A	19900731	US 1984-673508	19841120
US 4673522	A	19870616	US 1984-675774	19841128
US 4589925	A	19860520	US 1984-679235	19841207
AT 76784	E	19920615	AT 1987-300296	19870114
CA 1295315	A1	19920204	CA 1987-533652	19870402
JP 63264147	A2	19881101	JP 1987-91094	19870415
US 4994101	A	19910219	US 1987-116472	19871103
US 4877869	A	19891031	US 1988-149701	19880129
US 4885425	A	19891205	US 1988-149734	19880129
US 4910356	A	19900320	US 1988-149424	19880129
US 4912278	A	19900327	US 1988-149431	19880129
US 4942254	A	19900717	US 1988-149735	19880129
US 5057584	A	19911015	US 1988-150079	19880129
US 5099014	A	19920324	US 1988-150077	19880129
US 5105043	A	19920414	US 1988-150026	19880129
US 5105040	A	19920414	US 1988-150076	19880129
US 5034046	A	19910723	US 1988-235799	19880822
US 5055127	A	19911008	US 1988-235005	19880822
US 4993442	A	19910219	US 1989-416824	19891003
US 5035737	A	19910730	US 1989-423682	19891018
US 5149355	A	19920922	US 1990-546571	19900628
US 5288692	A	19940222	US 1990-707322	19910227
US 5374608	A	19941220	US 1992-946978	19920917
PRIORITY APPLN. INFO.:			US 1981-318343	A2 19811105
			US 1981-318368	A2 19811105
			US 1981-318629	A2 19811105
			US 1981-330904	A2 19811215
			US 1981-331001	A2 19811215
			US 1982-442296	A2 19821117
			US 1982-444667	A2 19821126
			US 1982-453496	A2 19821227
			US 1984-673358	A2 19841120
			US 1984-673508	A2 19841120
			US 1984-675774	A2 19841128
			US 1984-679235	A2 19841207
			US 1982-453282	A2 19821227
			US 1983-455268	A2 19830103
			US 1983-455317	A2 19830103
			US 1985-771259	19850830
			US 1985-783368	B1 19851003
			EP 1987-300296	A 19870114
			US 1987-50530	B1 19870513
			US 1987-116472	A1 19871103
			US 1988-150230	A3 19880129
			US 1990-546571	A1 19900628

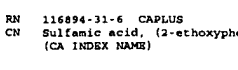
OTHER SOURCE(S): MARPAT 109:157278

AB Compns. containing H2SO4 and ≥1 chalcogen-containing compound R1C(:X)R2 (I; R1, R2 = H, NR3R4, NR5, where ≥1 of R1 and R2 ≠ H; R3, R4 = H or monovalent organic group; and R5 = divalent org group; the mol ratio of the chalcogen-containing compound to H2SO4 is .apprx.1/4 to <2) are catalysts for organic chemical reactions and have herbicidal activity. Acid-catalyzed hydrolysis was demonstrated on 4 replicated test plots of 5 acres each comprising onions at the 1st true-leaf stage (approx. 1-in. high) infested with malva, cheese weed, night-shade, shepherds purse, pineapple weed and purslane, which were each treated by foliar application of 50 gal/acre of a urea-H2SO4 component have a urea/H2SO4 mol ratio of .apprx.1.1 and containing urea 14.6, H2SO4 20.8 and H2O 64.6 weight%. The treatment gave 95-100% kill of all weed species within 48 h after application. There was no damage to the onion crop, as evidenced by the lack of foliage browning, spotting, or the like. Further examples using the compns. demonstrated hydrolysis of cellulose to glucose, dissoln. of cowhide, propylene oligomerization, polymerization of propylene and butane, polyester preparation from maleic acid and glycol, benzene alkylation, octane isomerization, demetalation of petroporphyrin-containing crude oil, and benzene nitration.

IT 116894-30-5 116894-31-6 116894-32-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(catalyst from, preparation of)

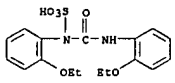
RN 116894-30-5 CAPLUS

CN Sulfamic acid, 2-propenyl(thioxomethyl)- (9CI) (CA INDEX NAME)

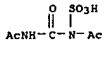


RN 116894-31-6 CAPLUS

CN Sulfamic acid, (2-ethoxyphenyl)[[(2-ethoxyphenyl)amino]carbonyl]- (9CI) (CA INDEX NAME)



RN 116894-32-7 CAPLUS
CN Sulfamic acid, acetyl[(acetylamino)carbonyl]- (9CI) (CA INDEX NAME)



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4807 OXIDATIONS
427018 OXIDATION
(OXIDATION OR OXIDATIONS)
731442 OXIDN
9201 OXIDNS
733362 OXIDN
(OXIDN OR OXIDNS)
866650 OXIDATION
(OXIDATION OR OXIDN)
960043 CATALYS?
L16 65127 OXIDATION CATALYS?
(OXIDATION(W)CATALYS?)

=> S L16 AND PORPH? AND (RHODIUM OR RH)
69630 PORPH?
67151 RHODIUM
31 RHODIUMS
67152 RHODIUM
(RHODIUM OR RHODIUMS)
89650 RH
442 RHS
89931 RH
(RH OR RHS)
L17 20 L16 AND PORPH? AND (RHODIUM OR RH)

=> D 1-20

L17 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:800653 CAPLUS
DN 143:374943
TI Efficient Electrochemical Conversion of Carbon Monoxide by Rhodium Octaethylporphyrin Adsorbed on Carbon Black
AU Yamazaki, Shinichi; Yamada, Yusuke; Yasuda, Kazuaki
CS Research Institute for Ubiquitous Energy Devices, National Institute of Advanced Industrial Science and Technology (AIST), Osaka, 563-8577, Japan
SO Inorganic Chemistry (2005), 44(19), 6512-6514
CODEN: INOCAJ; ISSN: 0020-1669
PB American Chemical Society
DT Journal
LA English
RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:976979 CAPLUS
DN 141:40686
TI Preparation of methanol-resistant cathodic electrocatalyst for direct methanol fuel cell
IN Xing, Wei; Li, Xuguang; Lu, Tianhong
PA Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 14 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI CN 1387273	A	20021225	CN 2002-116449	20020405
PRAI CN 2002-116449		20020405		

L17 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:656652 CAPLUS
DN 139:199084
TI Oxidation catalyst and process for its preparation and process for oxidation using it
IN Coleman, James P.; McGrath, Martin P.
PA Monsanto Technology LLC, USA
SO PCT Int. Appl., 106 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003068387	A1	20030821	WO 2003-US4578	20030214
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2476255	AA	20030821	CA 2003-2476255	20030214
EP 1474231	A1	20041110	EP 2003-711057	20030214
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2003007672	A	20050111	BR 2003-7672	20030214
PRAI US 2002-356916P	P	20020214		
WO 2003-US4578	W	20030214		

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2000:805885 CAPLUS
DN 134:56831
TI Regioselective oxidations of equilenin derivatives catalyzed by a rhodium(III) porphyrin complex-contrast with the manganese(III) porphyrin
AU Yang, Jerry; Breslow, Ronald
CS Department of Chemistry, Columbia University, New York, NY, 10027, USA
SO Tetrahedron Letters (2000), 41(42), 8063-8067
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 134:56831
RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1999:718945 CAPLUS
DN 131:338886
TI Metal-fluorinated and metal-perfluorinated complexes as catalysts and extractants for multiphase systems
IN Horvath, Istvan Tamas; Rabai, Jozsef
PA Exxon Research and Engineering Co., USA
SO U.S., 8 pp., Cont.-in-part of U.S. Ser. No. 502,339, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5981422	A	19991109	US 1997-918828	19970826
US 5463082	A	19951031	US 1993-88706	19930708
PRAI US 1993-88706	A3	19930708		
US 1995-502339	B2	19950714		

OS MARPAT 131:338886
RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1998:335058 CAPLUS
DN 129:35710
TI Monobridged porphyrin dimers and their metal complexes, procedure for their production and catalytic process using metal porphyrin complexes
IN Teles, Joaquim Henrique; Berkessel, Albrecht; Frauenkron, Matthias
PA BASF A.-G., Germany
SO Ger. Offen., 18 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 19647640	A1	19980520	DE 1996-19647640	19961118
PRAI DE 1996-19647640		19961118		

OS CASREACT 129:35710; MARPAT 129:35710

L17 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:173083 CAPLUS
DN 126:257935
TI Non-iron model studies on dioxygenases
AU Nishinaga, Akira
CS Department of Applied Chemistry, Osaka Institute of Technology, Osaka, 535, Japan
SO Catalysis by Metal Complexes (1997), 19(Oxygenases and Model Systems), 157-194
CODEN: CMCOES; ISSN: 0920-4652
PB Kluwer
DT Journal; General Review
LA English

L17 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996:705078 CAPLUS
DN 126:69184
TI Development of supramolecular metalloprotein mimics
AU Feiters, M. C.; Gebbink, R. J. M. Klein; Schenning, A. P. H. J.; van Strijdonck, G. P. F.; Martens, C. F.; Nolte, R. J. M.
CS Dep. Org. Chem., Univ. Nijmegen, Nijmegen, 6525 ED, Neth.
SO Pure and Applied Chemistry (1996), 68(11), 2163-2170
CODEN: PACHAS; ISSN: 0033-4545
PB Blackwell
DT Journal; General Review
LA English

L17 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1995:502796 CAPLUS
DN 123:82524
TI The highly efficient oxidation of olefins, alcohols, sulfides and alkanes with heteroaromatic N-oxides catalyzed by ruthenium porphyrins
AU Ohtake, Hiro; Higuchi, Tsunehiko; Hirobe, Masaaki
CS Faculty Pharm. Sci., Univ. Tokyo, Tokyo, 113, Japan
SO Heterocycles (1995), 40(2), 867-903
CODEN: HTCYAM; ISSN: 0385-5414
PB Japan Institute of Heterocyclic Chemistry
DT Journal
LA English
OS CASREACT 123:82524

L17 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1991:216692 CAPLUS
DN 114:216692
TI Anodic oxidation of sulfur dioxide. I. Effect of electrode material
AU Xue, Zoulin; Chou, Ju
CS Changchun Inst. Appl. Chem., Acad. Sin., Changchun, 130022, Peop. Rep. China
SO Yingyong Huaxue (1991), 8(1), 18-22
CODEN: YIHUED; ISSN: 1000-0518
DT Journal
LA Chinese

L17 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1989:181650 CAPLUS
DN 110:181650
TI Method and apparatus for electrochemical catalytic oxidation of sulfur dioxide to sulfuric acid
PA Central Laboratory of Electric Current Sources, Sofia, Bulg.
SO Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 302224	A2	19890208	EP 1988-110390	19880629
EP 302224	A3	19890719		
EP 302224	B1	19920826		
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
JP 01100004	A2	19890418	JP 1988-134280	19880531
HU 47887	A2	19890428	HU 1988-3367	19880629
AT 79833	E	19920915	AT 1988-110390	19880629
CN 1032772	A	19890510	CN 1988-104242	19880711
PRAI BG 1987-80864	A	19870806		
EP 1988-110390	A	19880629		

L17 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1988:438985 CAPLUS
DN 109:38985
TI Polymer-supported metal complex oxidation catalysts
AU Sherrington, David C.
CS Dep. Pure Appl. Chem., Univ. Strathclyde, Glasgow, G1 1XL, UK
SO Pure and Applied Chemistry (1988), 60(3), 401-14

CODEN: PACHAS; ISSN: 0033-4545
DT Journal; General Review
LA English

L17 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1987:438763 CAPLUS
DN 107:38763
TI Catalytic reactions of metalloporphyrins. 3. Catalytic modification of hydroboration-oxidation of olefins with rhodium(III) porphyrin as catalyst
AU Aoyama, Yasuhiro; Tanaka, Yasutaka; Fujisawa, Takeshi; Watanabe, Takamichi; Toi, Hiroo; Ogoshi, Hisanobu
CS Dep. Mater. Sci. Technol., Technol. Univ. Nagaoka, Nagaoka, 940-21, Japan
SO Journal of Organic Chemistry (1987), 52(12), 2555-9
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CASREACT 107:38763

L17 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1986:41834 CAPLUS
DN 104:41834
TI Kinetics and mechanism of glucose electrooxidation on different electrode-catalysts. Part II. Effect of the nature of the electrode and the electrooxidation mechanism
AU Vasil'ev, Yu. B.; Khazova, O. A.; Nikolaeva, N. N.
CS Inst. Electrochem., Moscow, USSR
SO Journal of Electroanalytical Chemistry and Interfacial Electrochemistry (1985), 196(1), 127-44
CODEN: JEIEBC; ISSN: 0022-0728
DT Journal
LA English

L17 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1983:521857 CAPLUS
DN 99:121857
TI Efficient olefin oxygenation with tetrahydroborate and dioxygen catalyzed by a rhodium porphyrin complex
AU Aoyama, Yasuhiro; Watanabe, Takamichi; Onda, Hiroyuki; Ogoshi, Hisanobu
CS Dep. Mater. Sci., Technol. Univ. Nagaoka, Niigata, 949, Japan
SO Tetrahedron Letters (1983), 24(11), 1183-6
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English

L17 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1983:80420 CAPLUS
DN 98:80420
TI Electrochemical oxidation of carbon monoxide with carbon-supported Group VIII metal chelates: mechanistic aspects
AU Van Baar, J. F.; Van Veen, J. A. R.; Van der Eijk, J. M.; Peters, T. J.; De Wit, N.
CS K./Shell-Lab., Shell Res. B. V., Amsterdam, Neth.
SO Electrochimica Acta (1982), 27(9), 1315-19
CODEN: ELCAAV; ISSN: 0013-4686
DT Journal
LA English

L17 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1982:615242 CAPLUS
DN 97:215242
TI Sensitized photoreduction of methyl viologen by metalloporphyrins
AU Lever, A. B. P.; Ramaswamy, B. S.; Licoccia, S.
CS Dep. Chem., York Univ., Downsview, ON, M3J 1P3, Can.
SO Journal of Photochemistry (1982), 19(2), 173-82
CODEN: JPCMAE; ISSN: 0047-2670
DT Journal
LA English

L17 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1982:225242 CAPLUS
DN 96:225242
TI Selective electrooxidation of carbon monoxide with carbon-supported rhodium and iridium porphyrins at low potentials in acid electrolyte
AU Van Baar, J. F.; Van Veen, J. A. R.; De Wit, N.
CS K./Shell-Lab., Shell Res. B. V., Amsterdam, Neth.
SO Electrochimica Acta (1982), 27(1), 57-9
CODEN: ELCAAV; ISSN: 0013-4686
DT Journal
LA English

L17 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1977:438254 CAPLUS
DN 87:38254
TI Catalytic autoxidation of organic compounds with transition metal complexes
AU Yoshida, Zenichi; Koishi, Toshio
CS Kyoto Univ., Kyoto, Japan
SO Kagaku (Kyoto, Japan) (1976), 31(12), 983-5
CODEN: KAKYAU; ISSN: 0451-1964
DT Journal; General Review
LA Japanese

L17 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1971:540043 CAPLUS
DN 75:140043
TI Kinetics and mechanism of metal-catalyzed autoxidation
AU Waters, W. A.
CS Oxford Univ., Oxford, UK
SO Journal of the American Oil Chemists' Society (1971), 48(9), 427-33
CODEN: JAOCA7; ISSN: 0003-021X
DT Journal
LA English

=> D ABS 20

L17 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AB The autoxidn. of organic compds., RH, occurs by a radical-catalyzed chain reaction to give hydroperoxides, RO2H, as primary products. As oxidation proceeds the hydroperoxides break down to give further catalytically active radicals and eventually an autoxidn. may reach a maximum rate independent of the concentration or nature of the catalyst. Photosensitization, by forming singlet O, can catalyze autoxidn. by forming peroxides. Compds. of transition metals, e.g., Co, Mn, Fe, act as secondary catalysts by promoting the rapid formation of radicals from RO2H mols. by a 1-electron forming M3+ from M2+ (M = metal); the M3+ ions are then reconverted to M2+ ions giving further radicals. The overall catalytic activity of a metallic ion is controlled by the slower step of the M2+-M3+ redox cycle and depends on the electronic structures of the 2 ions concerned and on the ligand groups attached to them. These effects are discussed in detail since ligand mols. for transition metal ions can be selected so as either to promote or inhibit autoxidn. Special reference is made to biol. catalysts, such as the porphyrins, found in food products. Direct activation of O by metallic complexes rarely occurs, but direct oxidation of substrates by metallic compds. is possible. This leads to another redox cycle which is utilized in Cu containing enzymes.

=> D ABS 15

L17 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AB Olefins were oxygenated to alcs. in an anti-Markownikoff manner by NaBH4 and O2 in THF in the presence of octaethylporphyrinatorhodium(III) chloride (I). E.g., cyclohexene was stirred with NaBH4 and I in aerobic conditions at 20-25° for 48-130 h to give cyclohexanol almost quant. The catalyst turnover rate was 6-7 cycles/h in the early stages of the reaction.

=> D ABS 12

L17 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AB Recent developments involving polymer-supported metal complexes as catalysts in oxidation reactions, using dioxygen, H2O2, alkyl hydroperoxides, hypochlorite anion and iodosobenzene as oxidants are reviewed with 69 refs. Supported metallo- porphyrins are described for the reversible binding of dioxygen, and in catalysis, along with the structurally closely related metallo-phthalocyanines. Dialkylphenol oxidative polymerization catalyzed by polymer-supported Cu2+ complexes is reviewed along with more recent developments of supported Pd2+ Wacker-type catalysts. Novel Nafion-supported Rh3+, Cr3+, and Ce4+ complexes are described and their potentials for application in hostile chemical environments are emphasized. Alkene epoxidns. using tert-BuOOH catalyzed by polymer-supported V5+ and Mo6+ species are dealt with in some detail because of the industrial potential of these systems, and the recent advances reported in the literature. Finally polymer-supported As, Se, and Te catalysts are described. Though not strictly metal complexes, these are very closely related to metal complex catalyzed H2O2 oxidns.

=> D ABS 9

L17 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2006 ACS on STN
AB The O atom transfer reactions from 2,6-disubstituted pyridine N-oxides to olefins, allyl or benzyl alcs. and sulfides were efficiently catalyzed by Ru porphyrins, and these substrates were converted into epoxides, aldehydes and sulfoxides, resp., with high selectivity. These oxidns. also proceeded using other heteroarom. N-oxides, such as pyrazine N-oxides, as oxidants. The catalytic activity of Ru porphyrin complexes was enhanced by the addition of a small amount of HCl or HBr. In the presence of these acids, the oxidns. of alkanes or aliphatic alcs. with 2,6-dichloropyridine N-oxides were also efficiently catalyzed by Ru porphyrin complexes, and alcs. or ketones were afforded as oxidation products with high selectivity. In the hydroxylation of adamantane, Ru porphyrins work very efficiently as catalysts, giving a turnover number of up to 120,000. This system offers practical advantages, such as mild conditions, tractability of oxidants and easy overall procedures. In the case of the reactions with HCl or HBr, one possibility in the reaction mechanism is that the activity of Ru porphyrins is enhanced in part by the coordination of Cl- or Br- as axial ligands.

=> S CYCLIC SULFAMIDATE
297909 CYCLIC
336 CYCLICS
298040 CYCLIC
(CYCLIC OR CYCLICS)
57 SULFAMIDATE
35 SULFAMIDATES
60 SULFAMIDATE
(SULFAMIDATE OR SULFAMIDATES)
L18 43 CYCLIC SULFAMIDATE

(CYCLIC(W)SULFAMIDATE)

=> S L18 AND PORPH?
69630 PORPH?
L19 4 L18 AND PORPH?

=> D 1-4

L19 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:1019826 CAPLUS
DN 142:6560
TI Intramolecular amidation of sulfamates 1,2,3-oxathiazolidine-2,2-dione and tetrahydro-1,2,3-oxathiazine-2,2-dione derivatives catalyzed by metalloporphyrins
IN Che, Chi-Ming; Liang, Jiang-Lin
PA Hong Kong
SO U.S. Pat. Appl. Publ., 12 pp., Cont.-in-part of U.S. Ser. No. 202,581.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004236099	A1	20041125	US 2004-790810	20040303
US 2004019204	A1	20040129	US 2002-202581	20020723
PRAI US 2002-202581	A2	20020723		

OS MARPAT 142:6560

L19 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:363764 CAPLUS
DN 141:123207
TI Intramolecular C-N Bond Formation Reactions Catalyzed by Ruthenium Porphyrins: Amidation of Sulfamate Esters and Aziridination of Unsaturated Sulfonamides
AU Liang, Jiang-Lin; Yuan, Shi-Xue; Huang, Jie-Sheng; Che, Chi-Ming
CS Department of Chemistry and Open Laboratory of Chemical Biology, Institute of Molecular Technology for Drug Discovery and Synthesis, University of Hong Kong, Hong Kong
SO Journal of Organic Chemistry (2004), 69(11), 3610-3619
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 141:123207
RE.CNT 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:76042 CAPLUS
DN 140:128437
TI Preparation of cyclic sulfamidates by metalloporphyrin-catalyzed oxidative intramolecular amidation of sulfamate esters.
IN Che, Chiming; Liang, Jianglin
PA The University of Hong Kong, Peop. Rep. China
SO Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1384718	A1	20040128	EP 2003-102223	20030718
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				

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     US 2004019204        A1    20040129    US 2002-202581         20020723
PRAI US 2002-202581       A     20020723
OS   CASREACT 140:128437
RE.CNT  2     THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19  ANSWER 4 OF 4  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2002:756471  CAPLUS
DN   138:187747
TI   Highly diastereo- and enantioselective intramolecular amidation of
     saturated C-H bonds catalyzed by ruthenium  porphyrins
AU   Liang, Jiang-Lin; Yuan, Shi-Xue; Huang, Jie-Sheng; Yu, Wing-Yiu; Che,
     Chi-Ming
CS   Department of Chemistry and Open Laboratory of Chemical Biology of the
     Institute of Molecular Technology for Drug Discovery and Synthesis, The
     University of Hong Kong, Hong Kong, Hong Kong
SO   Angewandte Chemie, International Edition (2002), 41(18), 3465-3468
     CODEN: ACIEF5; ISSN: 1433-7851
PB   Wiley-VCH Verlag GmbH & Co. KGaA
DT   Journal
LA   English
OS   CASREACT 138:187747
RE.CNT  38    THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


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